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IN CELEBRATION OF THE MISSOURI BOTANICAL GARDEN
TO ENRICH AND PRESERVE
IN CELEBRATION OF THE PROMISE OF THE NEW MILLENNIUM

THE MISSOURI BOTANICAL GARDEN MILLENNIUM BANNER

JANUARY / FEBRUARY 2000
VOLUME LXXXVIII / NUMBER ONE

Missouri Botanical Garden

Camellias
A Winter Bouquet

WALK INTO THE LINNEAN HOUSE IN WINTERTIME and enter a world of brilliant color that seems light years away from the cold landscape outside. The gorgeous blossoms of some camellias appear as early as October, but the main color begins in December and lasts through April. Peak bloom is in mid- to late February — bring your Valentine!

Camellias have been cultivated for at least two thousand years for their enormous economic value. They are native to Southeast Asia, primarily southern China and Japan. The seeds of some camellia species are crushed for their oil, which is used in cooking, cosmetics, and hairdressing.

Your morning cup of tea comes from the leaves of a *Camellia sinensis*. The young leaves are crushed, partially fermented, and then dried. Chinese green tea comes from the same plant, but the leaves are not fermented. When tea was introduced in Europe in the early 17th century, it was strictly for the wealthy — a pound of tea cost the equivalent of a year's salary.

Seeds of camellias first traveled to Europe from Asia on spice ships in the mid-18th century, when importers hoped to establish tea farms locally. While the flowers of the tea plant are not particularly showy, seeds of other camellia species were imported at the same time and soon became popular as ornamental plants. Look in the Linnean House for the beautiful white flowers of one of the oldest cultivars, *Camellia japonica* 'Alba Plena'. Our specimen is over 60 years old.

Camellias were brought to the United States from England in 1798 and were widely grown in conservatories in Philadelphia, Boston, and New York during the middle of the 19th century. Today they are popularly grown outdoors in the southeastern states and along the west coast, but the plants are not winter hardy in St. Louis. They can be grown in containers and moved indoors, but the plants must be kept below 55 degrees at night during the winter, as warmer night temperatures cause their buds to drop.

The Linnean House is filled with colorful annuals year-round. The display is often intensely fragrant, filled from fall through spring with the scent of the fragrant olive trees, *Osmanthus fragrans*, followed by several types of jasmines blooming from early to late spring. Contrary to popular belief, most camellias have no scent, though the fall-blooming species does have a subtle sweet fragrance.

By Susan Farrington

Above: The interior of the Linnean House today.

Susan Farrington is the horticulturist responsible for the Linnean House and the Temperate House. She earned a history degree from Haverford College in Pennsylvania and later studied horticulture at Temple University. She worked in retail horticulture for eight years as a greenhouse manager in the Philadelphia area before moving to St. Louis in 1996 to work at the Garden.

MISSOURI BOTANICAL GARDEN ARCHIVES

THE LINNEAN HOUSE

History Under Glass

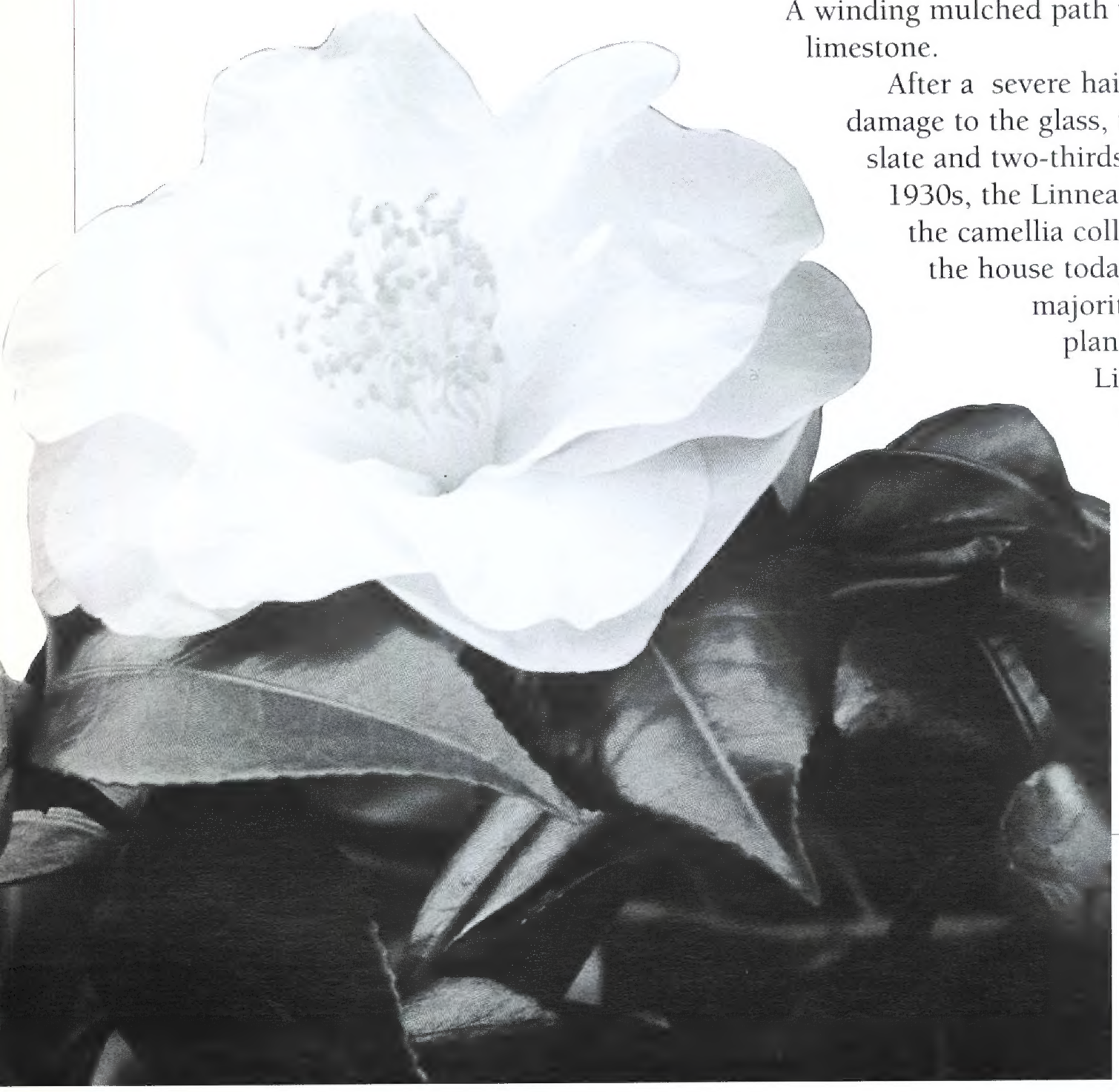
BUILT IN 1882 BY HENRY SHAW, THE LINNEAN HOUSE IS THE OLDEST GREENHOUSE IN continuous operation west of the Mississippi River. It originally served to overwinter palms, citrus trees, and other tender plants, which were displayed outdoors during the summer. Originally there were no permanent plantings inside the building. The large potted plants sat upon mulched ground.

After World War I, the conservatory was renovated and its purpose was changed. The half-glass, half-slate roof was converted to all glass, and soil was brought in to create sloped landscape beds. Rare conifers, rhododendrons, azaleas, and heaths were planted. The central water feature was created out of native limestone and fashioned to look like a natural spring along the Meramec River. A twisted tree stump, growing around a large boulder, sat atop the spring. The mermaid statue that now sits in the center of this fountain was not added until 1986. A winding mulched path was bordered by irregular pieces of limestone.

After a severe hailstorm in 1927 caused major damage to the glass, the roof was changed to one-third slate and two-thirds glass, as it is today. By the late 1930s, the Linnean House was converted to display the camellia collection. A few of the largest trees in the house today date to this time, but the majority of our current camellias were planted in the early 1960s and 70s. The Linnean House underwent a major restoration in 1980-81, and today it appears much as it did over a century ago.

— *Susan Farrington*

Above: Visitors at the Linnean House c. 1890.



MISSOURI BOTANICAL

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GARDEN LIBRARY

Comment

Missouri Botanical Garden Mission:
To discover and share knowledge about plants and their environment, in order to preserve and enrich life.

THE PAINTING ON THE COVER of this issue was designed to reflect the history and vision for the future of the Garden and its Arboretum. It is a splendid souvenir of the new millennium and the 200th birthday of our founder, Henry Shaw, created by the artist Robin Moline of Minneapolis and designed for the Garden by Hellmuth, Obata & Kassabaum, Inc.

An Englishman by birth, Shaw came to St. Louis at age 19. He played an extraordinary role in the spectacular growth of his adopted city and country during a long lifetime, which spanned all but the final decade of the 19th century. Shaw was a remarkable philanthropist, giving unstintingly of his fortune and energy to create Tower Grove Park and the Missouri Botanical Garden. His Garden was the first such institution created expressly for the public, and I think he would be pleased to observe how we have nurtured his vision and honored his life's work. For more about our year-long celebration of Shaw's bicentennial, please see page 7.

Henry Shaw was a very successful businessman who contributed to the growth of St. Louis as a gateway to the west. I think he would be as delighted as we are to welcome our new Corporate Partners, listed on the next page. With their generous support, they are strengthening the Garden's close ties to the St. Louis business community and continuing the legacy of Henry Shaw. We welcome them, and all of you, to a millennium that will see exciting new achievements at the Garden. — *Peter H. Raven, Director*

Catering St. Louis Joins the Garden

Catering St. Louis becomes the Garden's exclusive caterer as of January 1, 2000, operating the restaurant and handling all catered events. Catering St. Louis was founded in 1981 and has a reputation for creativity, excellence and attention to detail in both food and service. In addition to the Garden, the company provides food operations at the Saint Louis Art Museum, Whittemore House at Washington University, the St. Louis Artists' Guild in Oak Knoll Park, and the Studio and The Wings at St. Albans.

Mark Erker, president of Catering St. Louis, said, "It is an honor to be chosen to guide the future growth of food service operations at this beautiful landmark, and to help make the Garden a premier venue in the entire region for special events."

Peter Raven said, "We believe patrons will enjoy our new menu, reflecting the Garden's commitment to the environment and natural products. I wish to express our appreciation to Ces & Judy, also known as GreenTree Gourmet, for their past 16 years of devoted service to the Garden's visitors and staff."

The Gardenview Restaurant will be closed during January and February. Light refreshments will be available. For information about future restaurant service or catered events, call Catering St. Louis at (314) 577-0200 or (314) 961-7588.

Mailing Address:
Missouri Botanical Garden
Post Office Box 299
St. Louis, Missouri 63166-0299
(314) 577-5100

Visit the Garden Web site:
www.mobot.org

Garden Hours
9 a.m. to 5 p.m. every day except Christmas; 9 a.m. to 8 p.m. Memorial Day through Labor Day. Grounds open 7 a.m. Wed. & Sat.

Shaw Arboretum:
(314) 451-3512.

24-Hour Information:
GardenLine – (314) 577-9400
Or call 1-800-642-8842.

24-Hour Gardening Tips:
HortLine – (314) 776-5522
Or see www.mobot.org.

Employment/ Volunteer Hotline: (314) 577-9401
Or see www.mobot.org.

Horticulture Answer Service:
(314) 577-5143
9:00 a.m. to noon, Mon. – Fri.

Recycling/Compost Hotline:
(314) 577-9555
9:00 a.m. to noon, Mon. – Fri.

On the Cover
The Millennium Banner by Robin Moline depicts the Garden throughout the seasons. The floral motifs in each corner represent the Garden's botanical research in North America, South America, Africa and Asia. Posters are available in the Garden Gate Shop.

Editor
Susan Wooleyhan Caine

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The BULLETIN is sent to every member of the Garden as a benefit of membership. For a contribution of as little as $55 per year, members also are entitled to: free admission to the Garden, Shaw Arboretum, and Tower Grove House; invitations to special events and receptions; announcements of all lectures and classes; discounts in the Garden Gate Shop and course fees; and the opportunity for travel, domestic and abroad, with other members. For information, call (314) 577-5118.

Postmaster: Please send address changes to: Bulletin, Missouri Botanical Garden, P.O. Box 299, St. Louis, MO 63166-0299.

Charter Members

The Garden is proud to be associated with these distinguished companies, whose generous contributions support the Garden and the greater St. Louis community.

PRINCIPAL

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Commerce Bank
Monsanto

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Maritz Inc.
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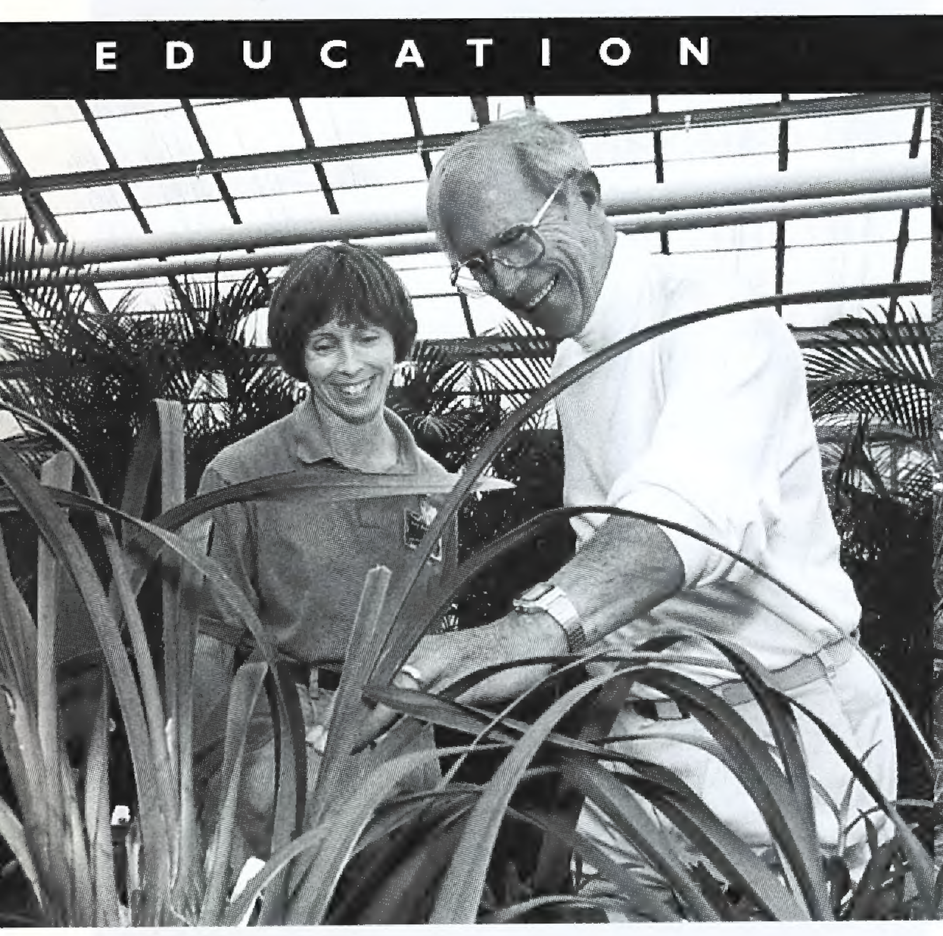
Corporate Partners Program

A Success Story



TWENTY-TWO ST. LOUIS AREA BUSINESSES have joined the Garden's new Corporate Partners Program in its very first year. Corporate Partners provide outstanding support for the Garden's general operations, helping to keep our science education and research programs functioning at the highest level of service to the community.

Corporate Partners receive wide recognition for their community involvement at the Garden. In addition, corporate members are invited to special events throughout the year, including the annual open house for the Research Division at the herbarium and library in The Monsanto Center and the annual Henry Shaw Dinner honoring major Garden donors.

The success of the program is due in large part to the work of the Corporate Partners Committee of the Board of Trustees, chaired by Clarence C. "Cedge" Barksdale. "This is a wonderful program that benefits everyone involved — local business, the Garden, and the people of St. Louis. We are delighted to help strengthen the Garden's ties to our St. Louis business community," said Barksdale. Other trustees serving on the committee are Lucius B. Morse III, Anthony F. Sansone, Sr., Jack E. Thomas, Jr., and Harry E. Wuertenbaecher, Jr.

For information about the Corporate Partners Program, please call Rachel Hartmann, corporate/foundation officer, at (314) 577-9513.

Endowments

The Legacy of B. A. Krukoff

BORIS ALEXANDER KRUKOFF, 1898-1983, was a highly regarded botanist and benefactor of botanical research. Born in Russia, he came to the United States in 1923 and graduated from Syracuse University. In

Peter Goldblatt, Ph.D.
B. A. Krukoff Curator of African Botany

1928 he began a long association with The New York Botanical Garden, serving as honorary curator from 1940 to 1948 and again from 1970 until his death.

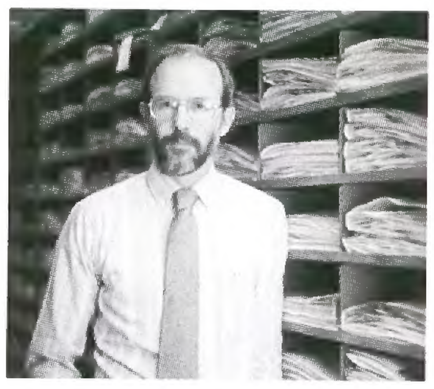
Dr. Krukoff spent most of his professional career with Merck and Co. (later Merck, Sharp and Dohne) investigating plants as sources of pharmaceutical drugs. Between 1928 and 1955 he led many botanical exploration expeditions to South America, Africa, and Sumatra, searching for potentially useful plants.

In 1981 Dr. Krukoff received the Henry Shaw Medal, the Missouri Botanical Garden's highest award. He endowed the Krukoff Curatorship of African Botany at the Garden, provided funds for the purchase of herbarium specimens of African plants, and supported the graduate study of Dr. David Neill, who today is the Garden's resident curator in Ecuador. In 1977, Krukoff's support brought Dr. Warren D. Stevens to the Garden as B.A. Krukoff Curator of Central American Botany. Dr. Stevens spent many years working in Nicaragua and served as director of research at the Garden from 1992 through1996.

The Krukoff Curatorship of African Botany

Dr. Peter Goldblatt is the current B.A. Krukoff Curator of African Botany. Dr. Goldblatt came to the Garden in 1972 from his native South Africa, where he earned his Ph.D. from the University of Cape Town in 1970.

Dr. Goldblatt is one of the world's leading experts on Iridaceae, which includes some 1,700 species and is



W. D. Stevens, Ph.D.
B. A. Krukoff Curator of Central American Botany

particularly well represented in southern Africa. The family includes irises, gladioluses, crocuses, and many less familiar plants.

Thanks in part to the generosity of B. A. Krukoff, today the Garden is a center for the study of African botany, with the largest herbarium collection of African plants in North America.

For More Information

For information on creating an endowment at the Garden, please call Patricia Arnold, director of development, at (314) 577-5120.

Gift Planning

Enjoying a winter stroll in the Garden.

New Gift Advisory Council

The Development Office has established a Bequest and Gift Advisory Council to advise the Garden on planned charitable giving. Carolyn Losos, a Garden trustee, will chair the new group.

"Planned gifts such as bequests and charitable annuities have some wonderful advantages for donors as well as the Garden," said Patty Arnold, director of development. "Our planned giving program assists people who are considering the advantages and options of making a planned gift, with complete confidentiality and no obligation. It is an outstanding service to our members."

The new advisory council will serve as ambassadors for the planned giving program. They will help acquaint members with the benefits of planned charitable donations and increase the Garden's visibility throughout the community.

For information about ways that planned charitable gifts can benefit both you and the Garden, please call Judi Schraer, planned giving officer, at (314) 577-9455.

News of Note

Right Arm of St. Louis Award Presented to Raven

PETER H. RAVEN was honored on December 7, 1999 with the 25th annual Right Arm of St. Louis Award of the St. Louis Regional Commerce and Growth Association (RCGA).

The prestigious annual award honors individuals who have made outstanding contributions to the St. Louis region. The 1998 award was presented to St. Louis Cardinal Mark McGwire.

"In the 28 years Dr. Raven has been part of the St. Louis community, his accomplishments and his reputation as one of the world's leading scientists clearly merit him this award, one of our community's highest honors," said Walter Metcalfe, Jr., chairman of the annual meeting and dinner and chairman of Bryan Cave. "Dr. Raven came to the Missouri Botanical Garden in 1971 and has taken the quiet little place most area residents call Shaw's Garden and turned it into an internationally respected research institution, plant preservation facility, and historical archive center."

Peter Raven has been recognized nationally and internationally for leadership in his field. Last August he served as president of the XVI International Botanical Congress, which brought 5,000 scientists from 100 countries to St. Louis. The RCGA saluted Raven's leadership in helping to establish St. Louis as a world center for plant science.

Peter Raven (right) receives the Right Arm of St. Louis Award from David C. Farrell, former chairman and chief executive officer of The May Company Department Stores Company. Mr. Farrell received the award in 1997.

The award was presented during the RCGA's 163rd annual meeting at the America's Center. The RCGA is the chamber of commerce and economic development organization for the 12-county bi-state region.

Henry Shaw's 200th Birthday Celebration

January 2000 through December 2000

Join us for a year-long gala celebration of the 200th anniversary of the birth of the Garden's founder, Henry Shaw. Mr. Shaw was born in Sheffield, England, in 1800, came to St. Louis in 1819, became a United States citizen in 1843, and died at Tower Grove House in 1889. His life spanned the 19th century, and the activities in his honor celebrate his English and American heritage and the history of the era in which he lived.

Henry Shaw in the Garden in 1859, the year it opened. The Linnean House is at left, the Museum at right.

JANUARY 3	**Unveiling of the Millennium Banner outside the Ridgway Center, 1:30 p.m.**
FEBRUARY	**Friends of Tower Grove Park Lecture Series begins (see page 12)**
MARCH	**St. Louis Symphony Chamber Concert Series at the Palm House in Tower Grove Park begins**
APRIL	**Christ Church Cathedral Victorian Street Fair • Flower Sunday • Art Contest for St. Louis Students, "A Future with Hope"**
MAY	**"Live at the Garden®" KFUO-FM concert series begins • Rose Evening**
JULY	**Henry Shaw's Birthday Celebration**
AUGUST	**Balloon Moonglow and Hot Air Balloon Race in Tower Grove Park**
SEPTEMBER	**Panel Discussion Series on St. Louis in the 19th Century begins**
NOVEMBER	**Victorian Ornaments Lecture and Display at Tower Grove House**

Watch for more details and new events to be announced!

Home Gardening

Uncommon as **DIRT**

Plants get all the glory, but everything starts with healthy soil. Take heart and take action.

By Steven D. Cline,Ph. D.

NO QUESTION ABOUT IT, plants get all the glory. But it takes healthy soil to grow healthy plants. Good soil contains millions of organisms, which improve water and air exchange, break down organic debris into nutrients for plant growth, and support the web of life above the soil line. Even when climatic conditions are not ideal, good soil and a healthy root system can make the difference. Does your garden have good soil? If not, take heart and take action.

Texture

Soil texture is determined by three universal components: sand, silt, and clay. Sand has the largest particles and clay the smallest. Clay holds nutrients well but tends to pack down and prevent air and water exchange. Sand allows good drainage, but does not store nutrients. Silt holds few nutrients and is slightly better than clay in allowing air and water flow. So, there are good and bad points to each, but overall, it is the proportions of each that makes good soil.

Changing soil texture is difficult, because you can't just go out and buy bags of clay or silt. For average drainage requirements in large planting areas and lawns, sand is the most economical choice for soil amendment. The disadvantage of sand is its weight, which makes tilling or digging much heavier work. At the Kemper Center, the soil in our demonstration gardens was mixed to 40 percent sand, 55 percent silt, and five percent clay. For good drainage, the sand percentage should be at least 30 percent. A smaller proportion will make mortar instead of good soil.

A lighter but more expensive alternative to sand is calcined clay or expanded clay. It looks like large sand or kitty litter. You purchase it by the bag, spread it over your beds in a two-inch layer, and till it in. For annuals and vegetable gardens where plants will be going in and out seasonally, it is worth the extra expense. For perennials, deciding whether to use expanded clay depends upon how well-drained the soil needs to be.

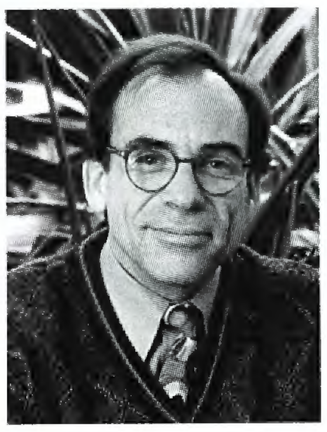
Look at our Flower Border Garden at the Kemper Center to see the results of a 40 percent sand mix. Then look at the vegetable garden for a sample of expanded clay amendment. Both soils are very productive.

Structure

Fortunately, soil structure is easier to improve than texture. Soil structure refers to how well the soil forms aggregates or clods. No matter what its percentages of sand, silt and clay, soil has a structure that can be modified to a certain degree. Good soil structure means better drainage, air exchange, root growth and response to fertilizers.

Modifying soil structure requires organic material. Adding organic matter to soil helps sand, silt and clay form aggregates or small crumbs, opening up spaces to allow water and air access to plant roots. Organic amendments include humus, compost, leaf mold, straw, peat moss, and green manure crops. Compost is excellent for building soil structure. Spread two to four inches of compost over the top of the soil and till it in to a depth of about six inches. Peat moss will also work. A four-cubic-foot bag is enough for about 75 square feet. When dealing with existing plantings, work up the soil with a four-tined cultivator or a potato fork, then apply compost and mix. Be careful to not disturb the root system by going too deep.

It is advisable to add amendments in the fall, to allow time for the soil to settle before planting in the spring. Soil tests are also best done in the fall. Depending on the test results, you can work in amendments to supplement deficient nutrients at the same time you till in organic material.



Steven D. Cline, Ph.D., is manager of the William T. Kemper Center for Home Gardening. He came to the Garden in 1989 to supervise planning, construction, interpretation, and education programs at the Center. Dr. Cline earned a B.S. in botany from the University of Washington and master's and Ph.D. degrees in ornamental plant pathology from the University of Illinois. Before coming to the Garden, Dr. Cline taught plant physiology at the University of Missouri St. Louis, worked as a crop consultant for Alvey Laboratory, and finished a post-doctoral fellowship in the Department of Biochemistry at St. Louis University Medical School. He writes a monthly gardening column for the St. Louis Times.

Holiday Tree Recycling

December 26, 1999 – January 17, 2000

Once again, the Garden will particpate in the Post-Dispatch Tree Recycling program. Holiday trees may be dropped off at the marked lot in the 4500 block of Shaw betweenVandeventer and Kingshighway, across from The Monsanto Center, from December 26 through January 17. All decorations should be removed, no bagged trees please. For information, call the hotline at (314) 577-9555.

What's Coming **up** At the Kemper Center for Home Gardening

2nd Annual Dirt Festival

Saturday, March 18, 2000

Registration Deadline: February 21

Come to the Kemper Center to learn all about making healthy soil that will grow healthy plants. The lecture is free, the soil test is optional. Seating is limited. **Advance registration is required and must be postmarked by February 21.**

LECTURE — 9 a.m. to noon

Join members of the Garden horticulture staff and other local experts for an in-depth look at soils, how to improve them, and how to grow gorgeous plants. Free.

SOIL TESTS

Take advantage of our optional Basic Soil Test at a special reduced rate. Mail samples by the February 21 deadline and pick up the results on the day of the Dirt Festival. We will send a sample box to you. Make checks payable to Missouri Botanical Garden. Select the type of soil test desired and write in the number of samples being sent:

___Basic Soil Test $15
Analyzes pH, organic matter, phosphorus, potassium, calcium, and magnesium. Good for determining fertilizer requirements.

___Complete Soil Test $30
Basic test plus levels of sulfur, iron, boron, copper, manganese, and zinc. For problem soils or when converting a new area into garden or lawn.

Crop or Plant To Be Grown (please circle one):

Annuals	*Perennials*	*Bulbs*	*Roses*
Herbs	*Indoor Plants*	*Shade Trees*	*Shrubs (specify)*
Small Fruit	*Vines*	*Rhododendrons/Azaleas*	
Ground Covers	*Fescue*	*Bluegrass*	*Zoysia*
Vegetables (specify)			

REGISTRATION (Name of person on soil test report):

Name_____

Address_____

City_____State_____Zip_____

Phone(____)_____Fax(___)_____

Mail this form with your check payable to:
Missouri Botanical Garden
DIRT FESTIVAL,
William T. Kemper Center for Home Gardening
P.O. Box 299
St. Louis, MO 63166-0299

Call (314) 577-9441 if you have questions.

Directory of Regional Plant Societies

This list is published twice a year, in the January and July issues of the *Bulletin*. To change your listing, call (314) 577-0254.

American Orchid Society (Mid-America Regional Judging Committee) *David Brown* . . . . . (314) 727-2385

Belleville Area Rose Society (618) 233-4609
Dennis Nelson http://users.accessus.net/~rosenut

Bonsai Society of Greater St. Louis
Bob Harris 352-0817

Boxwood Society of the Midwest
Sheila Hoffmeister 846-8430

Dahlia Society of Greater St. Louis
Ellis Evans 843-3767

Federated Garden Clubs of Missouri
Sue Reed 965-6813

Gardeners of America (Ozark Region)
Russell McClellan 837-2470

Gateway West Gesneriad Society
Gary Dunlap 789-3604

Greater St. Louis Daffodil Club
Jim Morris 256-3927

Greater St. Louis Daylily Society
Arlie Tempel 521-2171

Greater St. Louis Iris Society
Jim Loveland 349-4977

Henry Shaw Cactus Society
Pat Thomann 773-2931

Metro East Herb Club
Marilyn Edmiston . . . . . (618) 397-4593

Metropolitan St. Louis African Violet Council
Pat Dunlap . . . . . (314) 789-3604

Mid-America Regional Lily Society
Fred Winterowd 423-5313

Missouri Botanical Garden Daylily Society
Mirko Bolanovich 965-7471

Missouri Mycological Society
Brad Bomanz 225-0555

Missouri Native Plant Society
George Yatskievych 577-9522

Missouri Orchid Society
Ron Taube 961-0577

North American Rock Garden Society
Ruth Hartsell 241-7673

Orchid Society of Greater St. Louis
Millie Schehle . . . . . (636) 584-0494

Rose Society of Greater St. Louis
Mike McDonald . . . . . (314) 227-3426

St. Louis Carnivorous Plant Society
Susan Farrington 577-9402

St. Louis Evening Herbalists
Linda Berk 961-4314

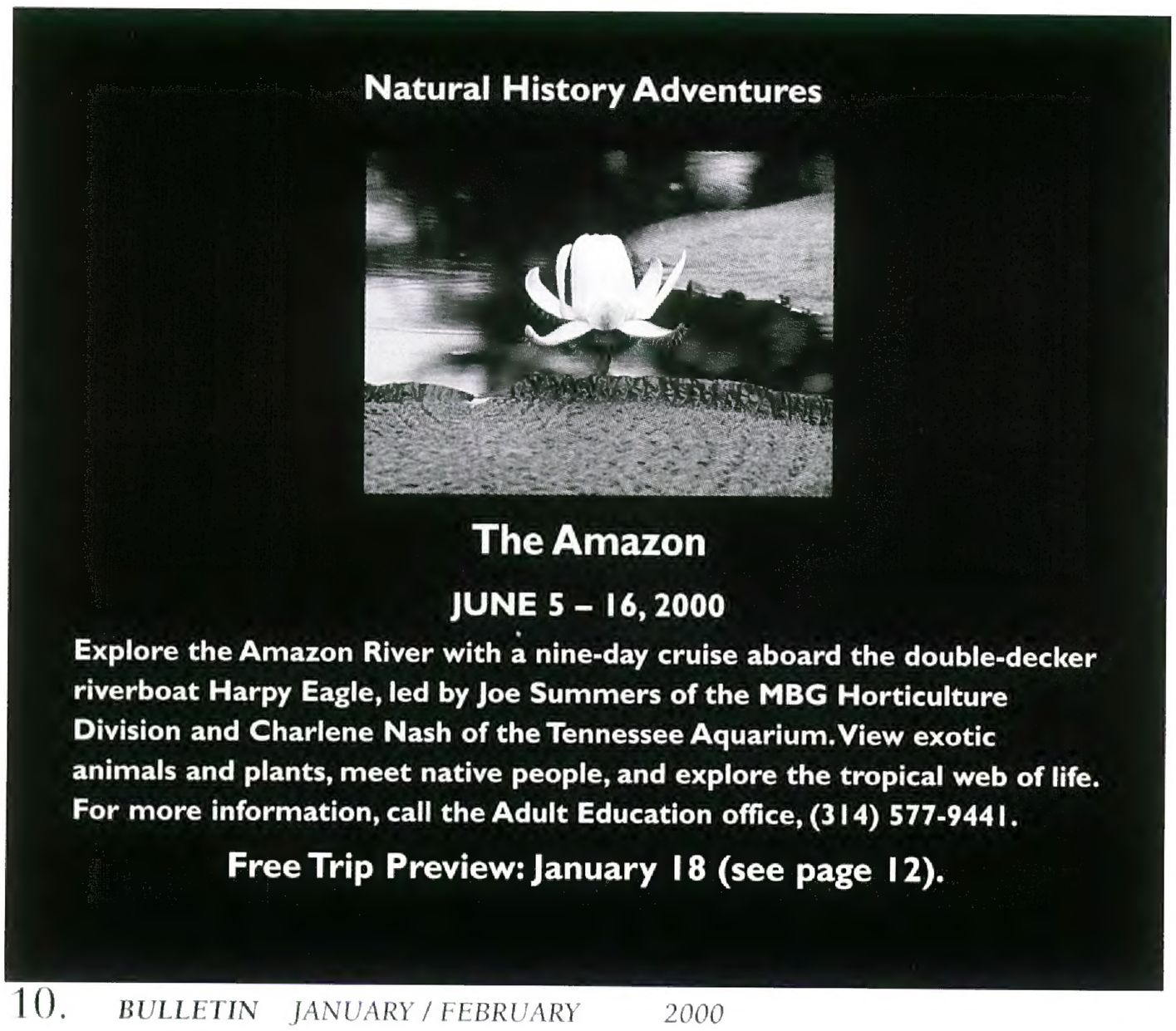
St. Louis Herb Society
Pat Leigh 230-6213

St. Louis Horticultural Society
Mindy Keyser 421-6610 x236

St. Louis Hosta Society
Dr. Diana Plahn 965-5007

St. Louis Water Garden Society
Joe Summers 577-9404

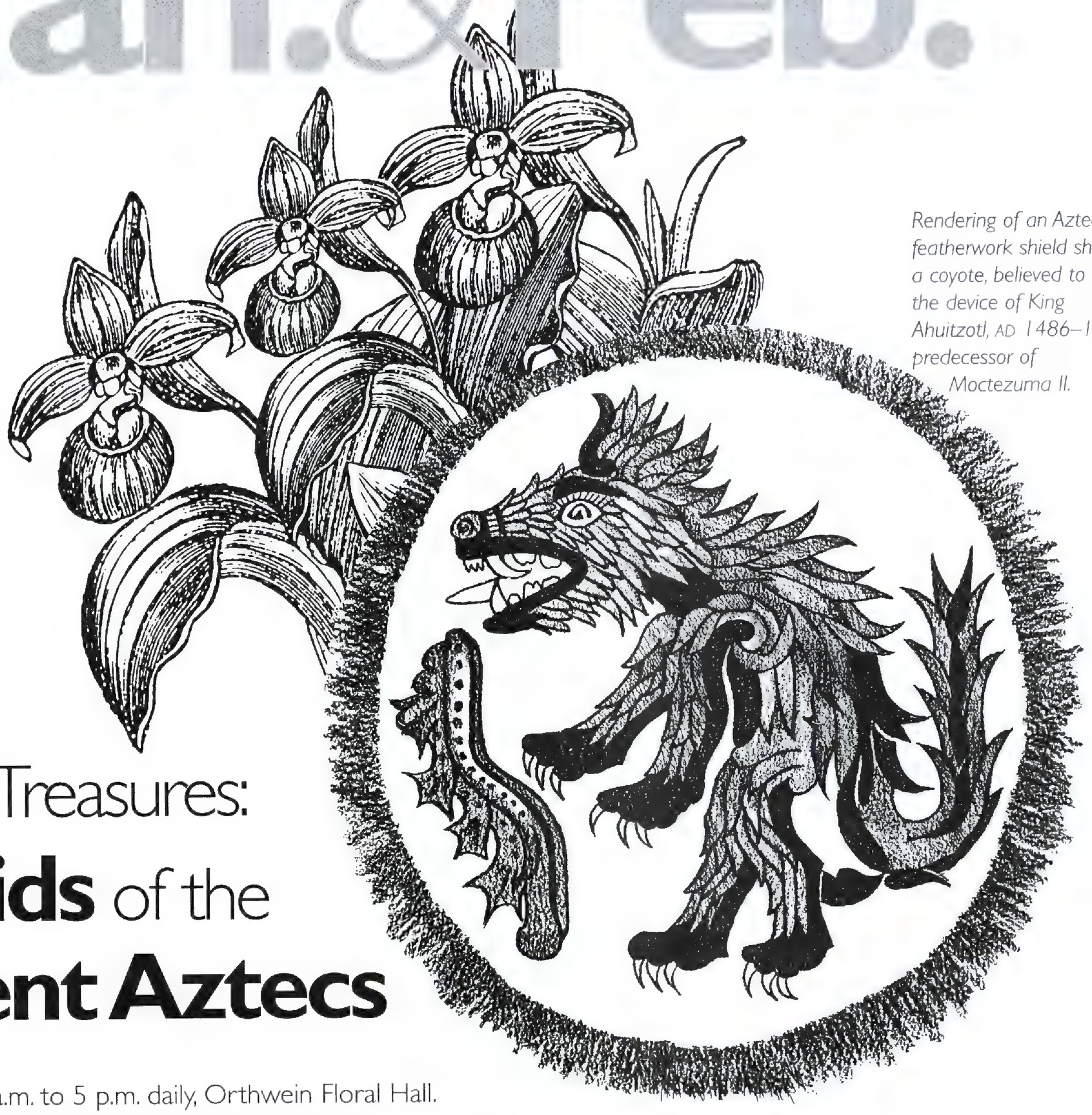
West County Daylily Club
Chic Buehrig 389-8261


Natural History Adventures
The Amazon
JUNE 5 – 16, 2000
Explore the Amazon River with a nine-day cruise aboard the double-decker riverboat Harpy Eagle, led by Joe Summers of the MBG Horticulture Division and Charlene Nash of the Tennessee Aquarium. View exotic animals and plants, meet native people, and explore the tropical web of life. For more information, call the Adult Education office, (314) 577-9441.
Free Trip Preview: January 18 (see page 12).

AND THE WINNER IS — Ruth Berman of University City won this beautiful dollhouse, donated by Dream House Miniatures, during the recent dollhouse exhibit at Tower Grove House. Mrs. Berman (right), is shown here with Jean Crowder, representing Tower Grove House Auxiliary, which sponsored the event. Our thanks and appreciation to all who helped make the exhibit such a success!

Calendar of Events

Jan.&Feb.



Rendering of an Aztec featherwork shield shows a coyote, believed to be the device of King Ahuitzotl, AD 1486–1502, predecessor of Moctezuma II.

Tropical Treasures: **Orchids** of the **Ancient Aztecs**

9 a.m. to 5 p.m. daily, Orthwein Floral Hall.

Travel to Mesoamerica and visit the ancient civilizations of the Mayas, Aztecs, and Incas. Our popular annual orchid show is filled with brilliant blooming flowers from the Garden's award-winning collection, one of the largest in North America. The exhibit will feature orchids from Mesoamerica and rare orchids from all over the world, displayed in natural settings. Flower Show admission is $2 for adults, $1 for seniors, plus regular Garden admission. The Flower Show is free to members and children under 12.

Members' Preview Party

Friday, January 28, 2000 • 5 to 8 p.m. • 4344 Shaw Boulevard

Entertainment • Cash Bar • Garden Gate Shop will be open, featuring 20% off all orchids and orchid accessories. • Gardenview Restaurant will be closed for renovations.

January & February Events

10th Annual Gospel Music Celebration

Two Sundays, February 13 & 20

3 p.m., Shoenberg Auditorium. Our 10th annual Gospel music concert has been expanded to two Sunday performances in response to overwhelming demand. February 13: featuring the Berean District Choir. February 20: featuring the St. Alphonsus "Rock" Church Choir. Musicians and choirs from other local churches and organizations will also perform. Free with Garden admission or membership.

January 3 Monday

Unveiling of the Millennium Banner

1:30 p.m., Ridgway Center. Kick off a year-long celebration of the new century, the new millennium, and our founder's 200th birthday. Visit the Garden Gate Shop for exclusive memorabilia.

January 15 Saturday

Garden StoryTime

11 a.m., Garden Gate Shop. For children ages four to ten. Storyteller Edie Schraeder reads stories about winter and snow, including "Snowflake Bentley" and "Winter Eyes." Learn about the world of plants and make a snowflake to take home. Parents are welcome to attend, and children under four must be accompanied by an adult. Free, no reservations. For more information, call (314) 577-5136.

January 18 Tuesday

Free Trip Preview: "The Amazon"

7 p.m., Ridgway Center. Get a sneak preview of the Garden's exciting natural history adventure to the Amazon, coming up in June. Free.

January 23 March 24

Exhibit: "Plants of Conservation Concern and their Communities"

9 a.m. to 5 p.m., Monsanto Hall. Thirty photographs by St. Louisan Casey Galvin feature threatened and endangered plants and where they grow. Free with Garden admission or membership.

February 5 Saturday

Tropics 2000

8 p.m. to midnight, Ridgway Center. A tropical winter party for young adults, sponsored by Young Friends of the Garden and FM-101 The River. Features music by Metro, dancing, refreshments, a silent auction, attendance prizes, and the spectacular Orchid Show and camellia display. $25 per person, $30 at the door. Call (314) 577-9500 for reservations.

February 5 & 6
Saturday & Sunday

Missouri Orchid Society Miniature Show and Sale

9 a.m. to 5 p.m., Ridgway Center. Free with Garden admission or membership.

February 6 Sunday

Friends of Tower Grove Park Lecture Series:

"Henry Shaw and the Performance of Classical Music in St. Louis"

2 p.m., Stupp Center in Tower Grove Park. Dr. Leonard Ott, associate professor of music and associate dean in the College of Arts and Sciences at the University of Missouri–St. Louis presents the first in a series of lectures in honor of Henry Shaw's 200th birthday. Free.

January & February Events

February 9 Wednesday

Free Trip Preview: "Kenya"

7 p.m., Ridgway Center. Get an advance look at the Garden's Natural History Adventure to Kenya, coming up in June. Free.

February 19 Saturday

Garden StoryTime

11 a.m., Garden Gate Shop. Storyteller Chris Turland reads "The Giving Tree," "The Sky Tree," and more. Help make our StoryTime season tree and receive a free gift! See January 15 for details.

February 21 Monday

Deadline for Annual Dirt Festival Registrations

See page 9 for details.

February 26 & 27
Saturday & Sunday

Sugared & Spiced & Everything Iced

9 a.m. to 5 p.m. both days, Ridgway Center. A fabulous display and demonstration of the art of cake decorating. Features exquisite hand-crafted botanical decorations and wedding cake designs. Watch local experts decorate cakes and learn to add finishing touches to your own sweet masterpieces. Free with Garden admission or membership.

February 27 Sunday

Lecture: "Early Buddhist Architecture in Japan"

2 p.m., Shoenberg Auditorium. A slide presentation by Dr. Dean Eckert, professor emeritus of art at Lindenwood University and a distinguished authority on Japanese art and culture. Presented in memory of Elizabeth McIntire, board member of the Asian Art Society and Japan America Society and former professor of art history at Principia College, who organized volunteers at the Garden's annual Japanese Festival for many years. Free.

Walking Tours led by the Garden Guides

1 p.m. daily. Meet at the Ticket Counter. Free.

Eco-Cart Demonstrations

Every Saturday from 11 a.m. to 3 p.m. in the Brookings Interpretive Center. Free.

Garden Walkers' Breakfast

The grounds open early every Wednesday and Saturday morning at 7 a.m. to encourage fitness walking, in cooperation with the American Heart Association.

The Gardenview Restaurant will be closed during January and February. Light refreshments will be available. For information about future restaurant service or catered events, call Catering St. Louis at (314) 577-0200 or (314) 961-7588.

Tram Service will be suspended during January.

Jim Solomon with the 5,000,000th herbarium specimen.

MEMBERS' DAY – January 18 Tuesday

The Garden Herbarium

11 a.m., Shoenberg Auditorium. Dr. James Solomon, curator of the herbarium, offers a behind-the-scenes look at the Garden's botanical research program and its herbarium and library resources. Following the lecture, tours of the herbarium and library at The Monsanto Center will be offered at 12:30, 1:00, 1:30, and 2:00 p.m. Please call (314) 577-9500 for tour reservations. The Garden's 5,000,000th herbarium specimen will be on display (see page 18). Lecture seating is on a first-come, first-served basis. Free, for members only. In the Garden Gate Shop, members receive an extra five percent discount on The Pressed Plant, *plant presses and cases.*

Jack Jennings with his camera

MEMBERS' DAY – February 18 Friday

A Visit to Seiwa-en

11 a.m., Shoenberg Auditorium. Join Garden photographer Jack Jennings for a breathtaking view of our Japanese garden throughout the seasons, accompanied by gentle, meditative Japanese music. Following the program, from noon to 2 p.m., members may walk or ride the tram to the Kemper Center for a cup of tea and to the Japanese garden for a special visit to Teahouse Island, usually open only during the Japanese Festival. A Garden Guide will be available to answer questions. Lecture seating is on a first-come, first-served basis. Free, for members only. In the Garden Gate Shop, members receive an extra five percent discount on selected merchandise featuring the Japanese garden, books on Oriental gardening, bonsai, and bonsai accessories.

January & February Events

Members' Valentine Dinner Dance

February 13 Sunday

Dinner – 7:30 to 9 p.m. • Music and dancing – 8 to 11 p.m. • Cash Bar

Enjoy a romantic dinner in Monsanto Hall, then stroll with your sweetheart through the Orchid Show, visit the Linnean House to enjoy the camellias in bloom, and dance to the music of the Ralph Butler Band.

Appetizer

Mesclun Greens with Grilled Red Onion Rings, Goat Cheese, Spiced Pecans and Walnuts, Sherry Vinaigrette

Choice of Entrée

Grilled Salmon Filet with Citrus Butter Sauce, Herbed Spinach Risotto Cake, Roasted Red Pepper, Zucchini & Carrots – $45 per person

Grilled Veal Flank Steak over Garlic Gruyere Mashed Potatoes with Caramelized Onion Sauce and Roasted Vegetables – $50 per person

Dessert

Chocolate Walnut Truffle Tart with Caramel Sauce, Whipped Cream and Candied Walnuts

Each pair of guests will receive a complimentary split of Champagne.

Reservations must be received by February 8; please call (314) 577-9500. Seating is limited.

MEMBERS' DAYS 2000 – Save These Dates!

JANUARY 18 Tuesday	*The MBG Herbarium – Dr. James Solomon*
FEBRUARY 18 Friday	*The Japanese Garden – Jack Jennings*
MARCH 14 Tuesday	*Visit to the 1904 World's Fair – Sue Oertli*
APRIL 13 Thursday	*Wildflowers of South Africa – Dr. Larry DeBuhr*
MAY 25 Thursday*	*Rose Evening (*on Thursday this year)*
JUNE 2 Friday	*Musical Evening with the St. Louis Brass Band*
JULY 13 Thursday	*St. Louis Herb Society*
AUGUST 15 Tuesday	*Prairies – Doug Ladd, The Nature Conservancy*
SEPTEMBER 15 Friday	*Tower Grove Park – John Karel*
OCTOBER 18 Wednesday	*Bulbs – Jason Delaney*
NOVEMBER 14 Tuesday	*Holiday Decorating*
DECEMBER 17 Sunday	*Holiday Concert*

Reserve Your Invitation!

An Herbal Gathering

Wednesday, April 12

THE Ladue Garden Club and St. Louis Herb Society will present a benefit for the renovation of the historic herb garden at Tower Grove House, Henry Shaw's 1851 country home.

Make plans now to join us for a memorable program and luncheon featuring entertaining and informative talks by local experts on the uses of herbs. Featured speaker is Dr. James Duke, internationally recognized expert on medicinal herbs and author of *The Green Pharmacy*. Watch for more details in the March/April *Bulletin*.

To receive an invitation to this exciting event, send your name and address to: St. Louis Herb Society, P.O. Box 220253, St. Louis, MO 63122, or email: stlherbers@aol.com, or call Barb Ottolini at (314) 532-4644.

Members

Past Presidents of the Members' Board

Mrs. Rudyard K. Rapp

SUE RAPP remembers visiting the Garden when she was five years old with her mother, who loved gardening. Sue joined the Members' Board twenty years ago and served as president in 1990 and 1991. Today she observes that the Members' Board is "like a good soup — each person contributes their special talents to the mix!"

She is a dedicated volunteer who believes in giving back to the community. "St. Louis is a volunteer town," she says, "we are uniquely blessed. Not only is this a wonderful place to live, we have so many people who give of their time and energy to support our organizations."

Highlights of her term as president include the wonderful Safari Party to reopen the Climatron after its renovation and the Old-Fashioned 4th of July held in the Garden and Tower Grove Park. She particularly enjoyed planning Members' Days and introduced popular concerts with the Rivertown Sounds and the Compton Heights Band. She continues to serve on the Membership Services and Information Desk.

Sue's volunteer activities include serving on the board of the Friends of Tower Grove Park, the Missouri Historical Society, and the Friends of Edgewood Children's Center, where she is a past president. She also helped to start the annual Antiques Show for the Repertory Theatre of St. Louis.

"Being president of the Members' Board at the Garden is the most exciting and rewarding job a volunteer can have," Sue says. "The Garden is a beautiful asset to St. Louis and gives so much back to the community. On the Members' Board, you are involved in promoting research and education programs that benefit an incredible range of people."

TIM PARKER

Shown at the "Garden of Gems" party are (from left): Liz Teasdale, president of the Members' Board, with Anne Hizar and Kathleen Dudley, co-chairs.

"A Garden of Gems"

ANTOINETTE'S JEWELRY IN LADUE welcomed 140 Garden members and guests to a lovely cocktail reception on October 27. Proceeds from this second annual "Garden of Gems" benefit help to sustain the Garden's programs and facilities. Our sincere appreciation to Antoinette's Jewelry for their support.

Happy Birthday, Henry!

Members Can Win Special Prizes

YOU COULD BE A WINNER! This year, with each membership purchased or renewed, you will receive an English tea tin filled with tea commemorating Henry Shaw's 200th birthday. And every month, a few lucky members will receive a tin containing a special "birthday" surprise: gift certificates from Wild Birds Unlimited, Hank's Cheescake, and other St. Louis favorites.

PLUS – You Could Win a Trip to London!

At the end of the year there will be a drawing of all members for a trip for two to England to visit The Royal Botanic Gardens, Kew.

TIM PARKER

"Tropics 2000" — *Young Friends of the Garden are sponsoring their annual midwinter party for young adults on Saturday, February 5 (see page 12 for details). The committee (from left): Hilary Daniel, Anne Suppiger, Jennifer Macalady, Drew Luning (co-chair), Susie Hizar, Ronda Latina, Andy Dielmann, and Leigh Wooten. Not pictured: Kalleen Munsch, co-chair.*

A Historic Specimen

The specimen mounted as Number 5,000,000 is *Cathaya argyrophylla* Chun & Kuang, representing a rare genus of the pine family known only from a very limited area in China. It was chosen for mounting as the five millionth specimen because of its rarity and unique characteristics, and because it symbolizes the Garden's extensive program in China. Peter Raven was elected to the Chinese Academy of Sciences in 1994 and is one of its few non-Chinese members.

A relict of the Tertiary period, *Cathaya argyrophylla* Chun & Kuang is recorded from about 30 localities in south-central China in the Sichuan, Hunan, and Guangiz provinces, where most colonies consist of one or a few scattered plants on steep ridge tops or rocky peaks. The total number of individuals of this species in the world is very small and reproduction is sparse. Because the plants live in inaccessible places and are rare, few specimens are found in collections in China, and even fewer are available for study at institutions outside China.

The specimen of *Cathaya argrophylla* Chun & Kuang was collected in Sichuan, China, in 1980 by Professor Fu Likuo, director emeritus of the herbarium, Laboratory of Systematics and Evolutionary Botany, Academia Sinica, Institute of Botany, Beijing. He donated it to the Garden's herbarium in 1997 as part of the Flora of China project, one of the Garden's several collaborative international research programs.

Adding Number

Our herbarium is one of the world's finest resources for the scientific study of plants.

THE FIVE MILLIONTH SPECIMEN IN THE GARDEN'S HERBARIUM was officially mounted at a ceremony on November 11, 1999. The Garden is one of only six institutions in the world with that number of higher plants (vascular plants, mosses, and liverworts) in its collection. In the United States, only the herbarium of The New York Botanical Garden is larger.

Nearly three million specimens have been added since Peter H. Raven became director of the Garden in 1971 and made growth of the collection a priority. Today the herbarium contains nearly 4.7 million vascular plants and more than 300,000 bryophytes (mosses and liverworts). The Garden's research activities are worldwide and include work in Central and South America, Africa, Madagascar, Viet Nam, China, and the former Soviet Union.

Peter Raven said, "The Garden's herbarium is a leading source of data that supports our ability to communicate about plants, their relationships, and their properties. The knowledge represented by the specimens held in the herbarium is crucial to reversing the loss of biodiversity that threatens our planet and to developing sustainable uses for plants throughout the world, including the means

The herbarium began numbering its specimens in 1913, when the collection already contained about 630,000 specimens.

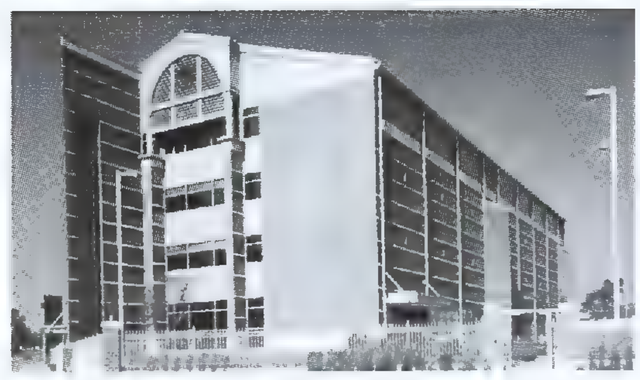
Specimen No. 1
(shown here) is stamped 1913: *Ardisia escalonioides* Schlecht. & Cham. Mexico. Yucatan, Calotmul. 1895. G.F. Gaumer 894.

No. 2,000,000
was added on 1 July 1970: *Crataegus mollis* (Torr. & A. Gray) Scheele. (Red Haw), Missouri State Flower. Missouri Botanical Garden grounds. 29 June 1970. W. H. Lewis & S. Verhoeck-Williams 7625.

A Historic Ceremony

Shown at the ceremony on November 11, 1999, are (from left): William H. T. Bush, a Garden trustee and former president of the board; Dr. Robert Magill, director of research; Peter H. Raven; Lu Yong-xiang, president of the Chinese Academy of Sciences; and Wei Ruixing, Consul General of the People's Republic of China in Chicago.

Five Million



of conserving them."

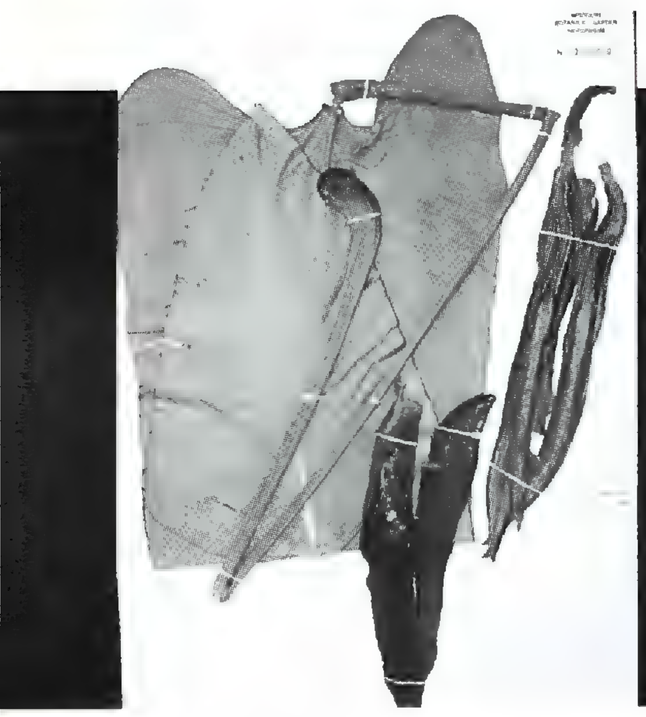
The Garden's herbarium began with approximately 62,000 specimens, the collection of Johann Jakob Bernhardi, purchased in Germany in 1857 on behalf of the Garden's founder, Henry Shaw. The purchase was made by George Engelmann, a German immigrant and physician who was one of the foremost American botanists of the 19th century and a principal advisor to Shaw.

The Bernhardi collection was formed in Germany during the late 18th and early 19th centuries. It contains many valuable early specimens from North and South America, Africa, and Asia, and contains many type specimens — the original collections on which the names of those species were based and thus critical reference points for subsequent studies.

Engelmann's own herbarium of about 100,000 specimens was donated to the Garden by his son in 1889, further enhancing the Garden's holdings with collections from many of the exploring expeditions to western North America and northern Mexico during the middle of the 19th century.

RESEARCH PARTNERS are a vital link in the Garden's worldwide botanical research efforts. As a Research Partner, you are invited to select one of the major flora projects at the Garden—Flora of China, Flora Mesoamerica, or Flora of North America—and become involved in its progress. You will receive regular updates on the progress of your project and participate in special events and lectures where you will meet Garden botanists.

If you are interested in becoming a Research Partner, please call Kelly Dopman, development manager, (314) 577-0847.



No. 3,000,000
was added on 20 April 1983: *Philodendron davidsonii* Croat. Costa Rica. Limon Prov., north of Siquirres. Thomas B. Croat 52232.

No. 4,000,000
was added on 20 May 1992: *Ancistrocladus korupensis* D. W. Thomas & Gereau. Cameroon. Southwest Prov., Korup National Park. D. W. Thomas 6889.

News of Note

Saving Time

The handsome antique clock at the Bascom Manor House at Shaw Arboretum has been set ticking again, thanks to the generous efforts of Martin Schweig (right) and Dr. Bryan Rogers (left). Mr. Schweig, a clock collector, serves as a commissioner of the Botanical Garden Subdistrict of the Zoo-Museum District. He offered to help restore the clock, which was built about 1790 in Maine and was part of the antique collection of the late Stanford Morton. Mr. Schweig enlisted the help of Dr. Rogers, who knew of an expert in Maine who could recreate the pendulum, weights, and carved wooden gears to match the internal works of the clock. Dr. Rogers and Mr. Schweig installed the restored clock on the upper landing of the Manor House, where its chime is enjoyed by visitors.

International Exposition in China

THE MISSOURI BOTANICAL GARDEN participated in the 1999 International Horticultural Expostion, "Man and Nature Marching into the 21st Century," held in Kunming, China, from May through October. The Garden was one of only three U.S. institutions to participate in the exposition, which welcomed about ten million visitors.

The Garden is the organizational center for the *Flora of China*, an international project that benefits research and policy efforts in science, health, and the environment. The exhibit featured the Garden's global botanical research and its role in helping to preserve global biodiversity.

South Africa Connection – *A group of members and guests of the Missouri Botanical Garden visited Kirstenbosch Botanical Garden in Cape Town, South Africa in 1999. Dr. Brian Huntley (above, right), chief executive of the National Botanical Institute in South Africa, spoke with the visitors. Dr. Huntley described the history of Kirstenbosch Garden and the many research and education connections between the National Institute and the Missouri Botanical Garden.*

In Memoriam

Trees Planted at Clay School

SIX TREES were planted at Clay School in St. Louis last March in memory of six children who died in the tragic Hyde Park Fire. Four of the trees were donated by the Garden, and one each was donated by Garden Heights Nursery, Inc. and Sherwood's Forest Nursery. Gateway Greening staff and St. Louis Master Gardeners attended the memorial service and planted the trees as part of the service.

Gateway Greening works with staff and students to maintain a garden at Clay School. We extend our deepest sympathy to the family and friends of the children, for whom these trees are a living memorial.

TIM PARKER

Students in the Clayton School District are building their knowledge of science through one of the Garden's Discovery Units, "Life Cycles of Plants."

Left: Learning from the Climatron® displays.

Above: Studying nature outdoors at Shaw Arboretum.

Discovery Units in Action

Partners for Growing Science

By Lydia Toth and Julie Knobbe, MBG Education Division

"HEY, look at the cool bug on this cedar tree. Let's make sure we count it." "This flower must be pollinated by a moth because it's white and has ragged edges!"

Students of the Clayton School District discovered new ways to look at the natural world during a recent outdoor activity at Shaw Arboretum. The Clayton School District is working in partnership with the Garden's Education Division to enhance its science curriculum. All sixth graders in Clayton schools will visit the Arboretum four times during the school year to study the differences between natural communities such as wetlands, prairies and forests.

Twenty-five sixth graders from Wydown Middle School were invited last spring to participate in a long-term environmental monitoring project at Shaw Arboretum. This year, the students are taking inventory of the plants and animals living in an area slated for ecological restoration. In future years, they will continue to investigate changes in biodiversity as the area returns to native vegetation.

Fourth graders in the Clayton district are building their knowledge of plants through one of the Garden's twelve Discovery Units, "Life Cycles of Plants." In October, all fourth grade teachers attended a workshop at the Garden to introduce them to the unit. With kits of materials in hand, the teachers returned to their classrooms to introduce concepts and prepare the students for further investigation at the Garden throughout the school year.

Joe Clark, Clayton's science coordinator, said, "Working in partnership with the Garden is a perfect match for the goals of our science program. It supports us in addressing national and state science standards and provides a context for authentic inquiry beyond the walls of the classroom. We believe this will encourage our students to become lifelong learners."

From left: Anne Frohman, Charzel Davis, Becky Young of the Education Division, and Jenifer Corbin. Not pictured: Jo Dalton.

New Volunteer Instructors

THE Volunteer Instructors welcomed four new members with a luncheon on October 19, 1999. Instructors work with the Education Division to present science programs to students in grades K-6. New instructors complete a formal training program and work with experienced instructors for one year before teaching classes to students.

TRIBUTES
SEPT. – OCT. 1999

IN HONOR OF

For information on making a gift to the Tribute Fund, please call the Development Office at (314) 577-5120

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continued on page 22

This Winter, Think Summertime for Your Valentine!

"The Shop at the Garden"

From exquisite orchids in charming ceramic pots to magnificent straw flowers, you'll find something in bloom to brighten up your day in the Garden Gate Shop. Experience personalized shopping, custom gift selections, and exclusive gifts from all over the world.

Lots of Gifts under $25!

All proceeds from the Garden Gate Shop benefit the Missouri Botanical Garden.

PHOTOGRAPHY BY TRENT FOLTZ

Garden Gate Shop

Missouri Botanical Garden
4344 Shaw Boulevard
(314) 577-5137

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continued from page 20

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A Lasting Heritage

GARDEN HERITAGE is a quarterly newsletter filled with information about the benefits of planned charitable donations and how to create a gift to fit your needs. If you would like to receive a copy of Garden Heritage or if you would like more information on the Garden's Planned Giving Program, please call Judi Schraer, Planned Giving Officer, at (314) 577-9455.

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Printed on recycled paper using soy-based inks

A banner year

Colorful new banners in Monsanto Hall give a glimpse of the web of life on the surface of a pond. The delightful creations were designed by Kiku Obata and Company and made possible by a generous bequest in memory of Mr. and Mrs. Herman Koehler.

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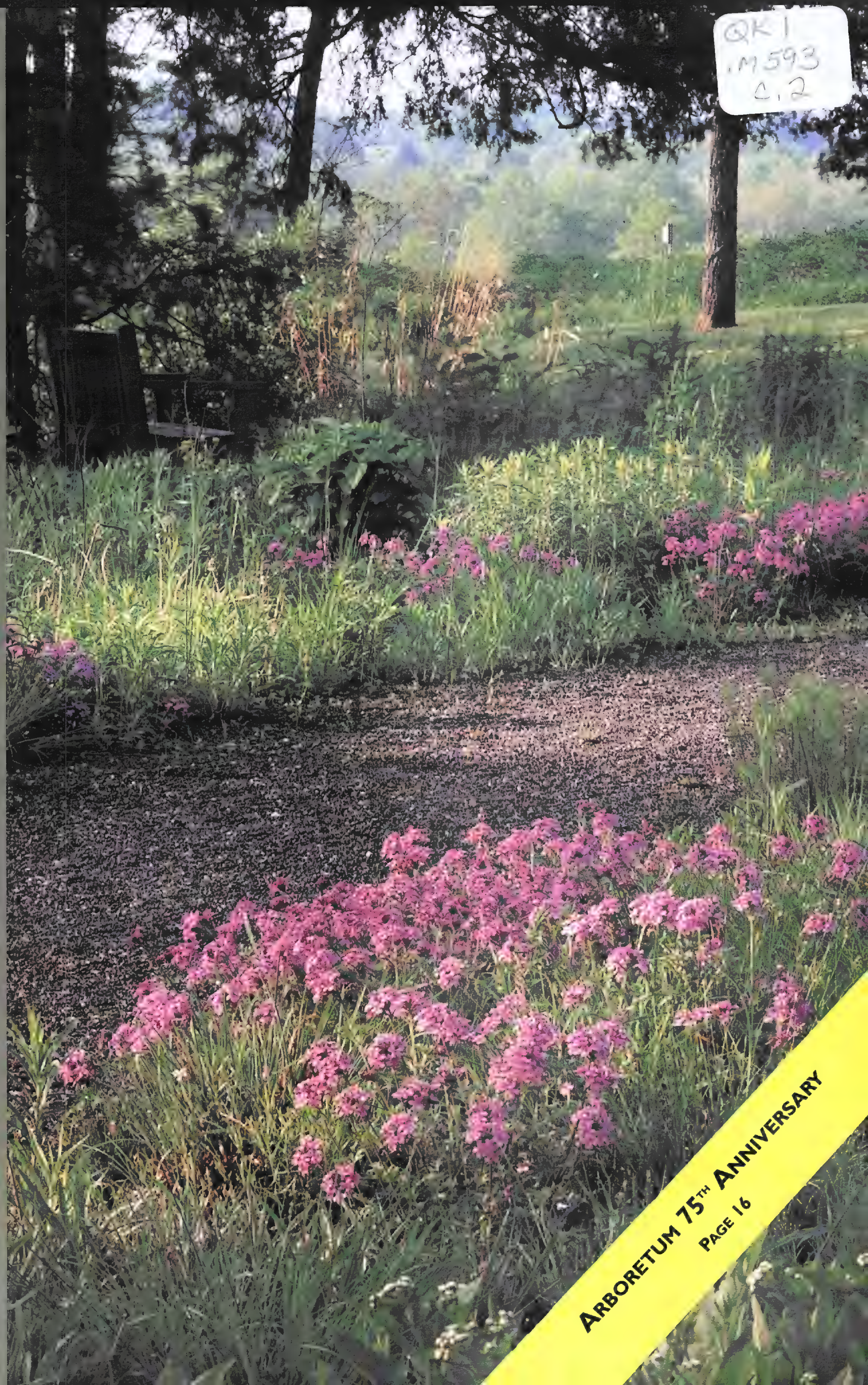


Missouri Botanical Garden

MARCH / APRIL
2000

Volume LXXXVIII
Number Two

Arboretum 75th Anniversary
Page 16

Right: Portrait of Shaw in the Garden in 1859.

"Common Ground" is our year-long celebration of Shaw's 200th birthday and the achievements that are part of his legacy.

ALL PHOTOGRAPHS: MISSOURI BOTANICAL GARDEN ARCHIVES

Celebrating the Vision of HENRY

Henry Shaw in the 1870s

HENRY SHAW was born in Sheffield, England, in 1800. He immigrated to the United States, arrived in St. Louis at the age of 18, and became a successful businessman, selling hardware and investing in real estate in the prospering frontier city.

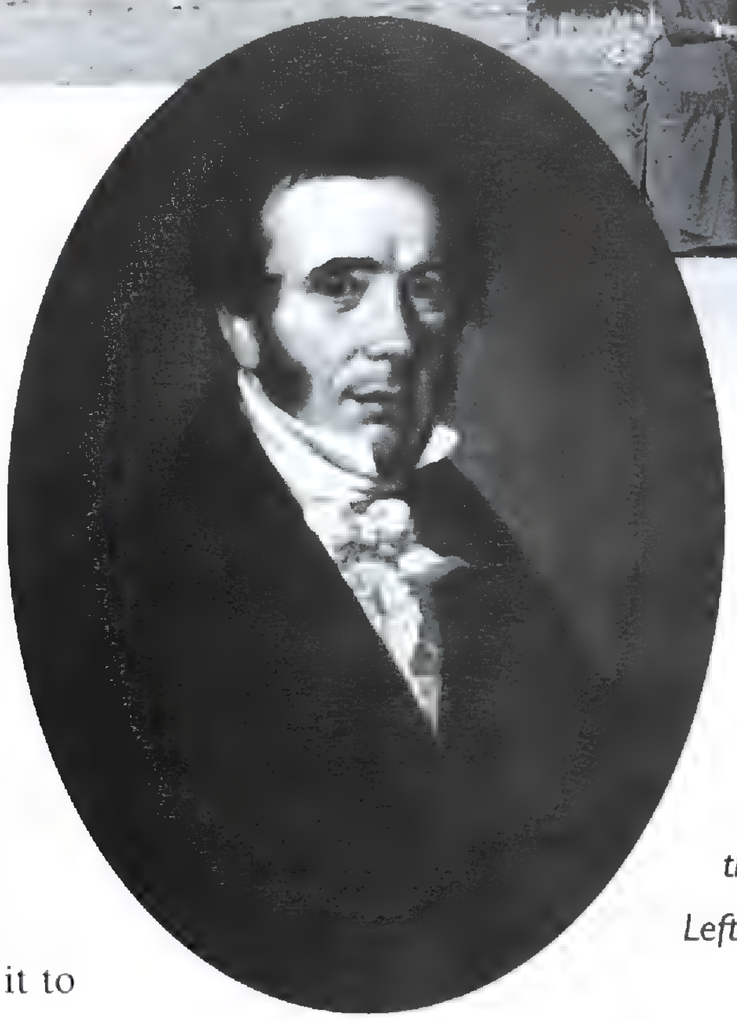
Shaw is best remembered as the founder of the Missouri Botanical Garden and Tower Grove Park, but many St. Louis institutions were beneficiaries of his devotion to his adopted city. They include the Missouri Historical Society, Washington University, St. Louis Mercantile Library, the Episcopal Diocese of Missouri, and Edgewood Children's Home, among many others.

Today, through the vision of this great philanthropist, St. Louisans from all walks of life continue to find common ground in science, education, social welfare, culture, and enjoyment of our beautiful public spaces.

The Shaw Legacy

Henry Shaw founded the Missouri Botanical Garden at his country estate, Tower Grove, and opened it to the public in 1859. Today it is the oldest operating botanical garden in the United States and one of the most active and productive in the world dealing with plant biodiversity and botanical research.

In 1869, Shaw gave the city 289 acres adjacent to the Garden, designed it as an English walking park, and planted it with more than 8,000 trees and shrubs imported from around the world. The landscape features Victorian pavilions and provides a venue for many community and cultural activities. Today, Tower Grove Park is one of only three urban parks in the U.S.



Above, left: Henry Shaw in a carriage with his two sisters, Miss Sarah Shaw and Mrs. Caroline Morisse, at the Grand Avenue entrance to Tower Grove Park, 1880.

Above, right: Shaw escorting Mrs. Edom and Mrs. Trelease in the Garden, 1888.

Left: Henry Shaw in 1835.

SHAW

designated as a National Historic Landmark.

The Missouri Historical Society collects, preserves, and interprets objects and materials pertinent to an understanding of the history of the region, based on an ongoing program of systematic historical research. In 1887, Henry Shaw purchased the library of the late Bishop Charles F. Robertson and donated it to the Society.

Common Ground

At the opening ceremony for the year-long celebration on January 3, unveiling the Garden's Millennium Banner, Peter Raven said, "Henry Shaw was devoted to gardens and to the natural environment. Our theme of Common Ground conveys our commitment to the ideals of biodiversity and sustainability, without which there will be no living testament to Shaw's times or our own."

Through his real estate holdings and his interest in forming a residential area around this country estate, Shaw laid the groundwork for today's diverse Garden District neighborhood. "The 19th century vision of improving quality of life in our cities is just as relevant today as it ever was, maybe more so," said John Karel, director of Tower Grove Park. "Urban parks play a role in that vision."

"It is remarkable that this singular, very private man had such enormous influence, not only in his time, but bridging our own and reaching yet into a third century," said George Herbert Walker III, chairman emeritus of the board of the Missouri Historical Society and chairman of the Board of Stifel Nicolaus and Company.

MISSOURI BOTANICAL
MAR 0 8 2000
GARDEN LIBRARY

200th Birthday Celebration

MISSOURI BOTANICAL GARDEN
MISSOURI HISTORICAL SOCIETY
TOWER GROVE PARK

A Year of Special Events

The Garden, in partnership with the Missouri Historical Society and Tower Grove Park, is planning a year of special events for our Common Ground celebration. Please see pages 12-13 for events in March and April.

Watch for special personal appearances by Henry Shaw himself throughout the year!

Events commemorating Henry Shaw's 200th anniversary are sponsored by AmerenUE, Coca-Cola, Don Brown Chevrolet, The May Department Stores Company, Schnucks Markets, Inc., and TIAA-CREF.

Comment

Missouri Botanical Garden Mission:
To discover and share knowledge about plants and their environment, in order to preserve and enrich life.

Henry Shaw, a singularly private man, set the standard for philanthropy in the St. Louis region. He founded not only the Garden and Tower Grove Park, but contributed to and influenced hundreds of other St. Louis institutions. Your support for the Garden, demonstrated by your record setting response to the Henry Shaw Fund year-end appeal, measures well against Mr. Shaw's standard. Your support helps to ensure that the Garden will continue offering the highest level of service to all the people of our community, and I thank you.

In celebrating Henry Shaw's 200th anniversary this year, we are recognizing his legacy to the people of St. Louis, the cultural and educational foundation of our society today. Shaw made of our institutions, especially the Garden and the Park, a "common ground" for us to share, and that is the theme of our celebration.

Year 2000 also marks the 75th anniversary of Shaw Arboretum.

Henry Shaw's original plan included an arboretum on land just west of the Garden. In an ironic twist of history, that property was sold to finance the original purchase of land for the Arboretum, as pollution threatened the very existence of the Garden. Today, Shaw Arboretum is an exciting place where we have reestablished native habitats and plant communities, including glades, prairie and wetlands, a place where people come to discover the wonders of the natural world.

The new century, Henry Shaw's and our own, should be one of conservation and sustainability, where we learn from the exhibits at the Garden and the Arboretum that life on this planet is worth preserving, for us and for our children. — *Peter H. Raven, Director*

Coming Soon!

The Garden Café

The new restaurant at the Garden, The Garden Café, will open soon — watch for announcements. While the restaurant is undergoing renovations, light refreshments are available in the Ridgway Center.

For information about future restaurant service or catered events, please call Catering St. Louis at (314) 577-0200 or (314) 961-7588.

Mailing Address:
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Post Office Box 299
St. Louis, Missouri 63166-0299
(314) 577-5100

Visit the Garden Web site:
www.mobot.org

Garden Hours
9 a.m. to 5 p.m. every day except Christmas; 9 a.m. to 8 p.m. Memorial Day through Labor Day. Grounds open 7 a.m. Wed. & Sat.

Shaw Arboretum:
(314) 451-3512.

24-Hour Information:
GardenLine – (314) 577-9400
Or call 1-800-642-8842.

24-Hour Gardening Tips:
HortLine – (314) 776-5522
Or see www.mobot.org.

Employment/ Volunteer Hotline: (314) 577-9401
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On the Cover
The Whitmire Wildflower Garden at Shaw Arboretum is filled with color in springtime.
Photo by Mary Ann Kressig

Editor
Susan Wooleyhan Caine

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The BULLETIN is sent to every member of the Garden as a benefit of membership. For a contribution of as little as $55 per year, members also are entitled to: free admission to the Garden, Shaw Arboretum, and Tower Grove House; invitations to special events and receptions; announcements of all lectures and classes; discounts in the Garden Gate Shop and course fees; and the opportunity for travel, domestic and abroad, with other members. For information, call (314) 577-5118.

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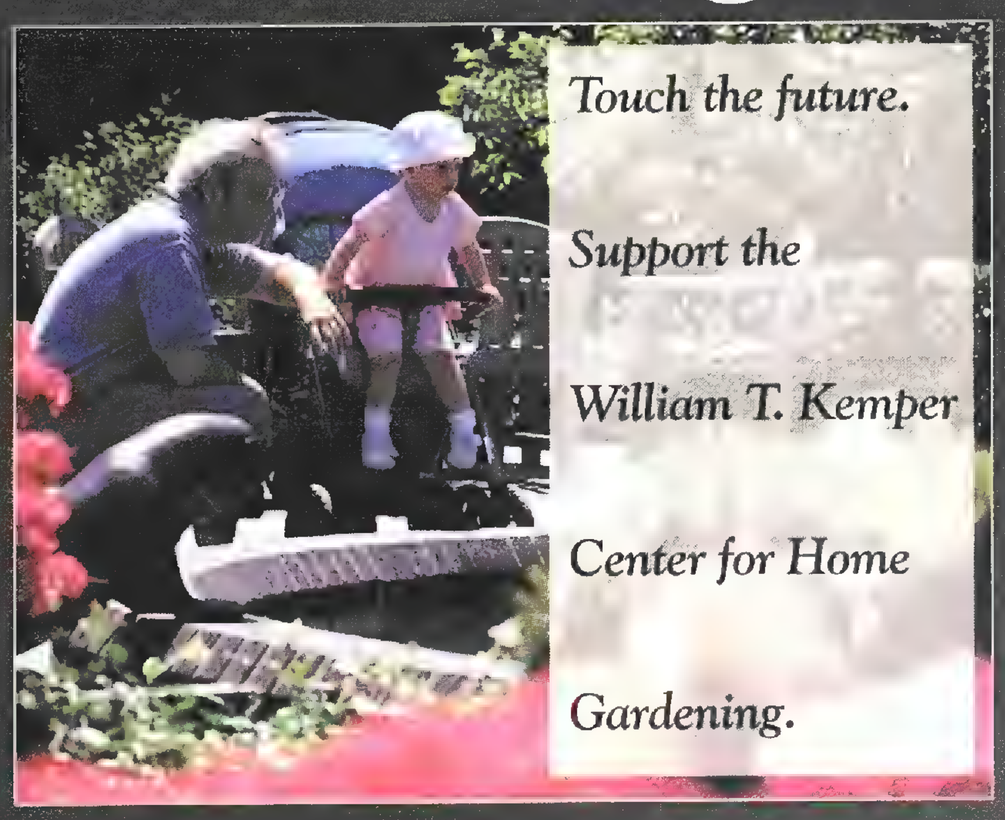
take the Challenge!



Touch the future.

Support the

William T. Kemper

Center for Home

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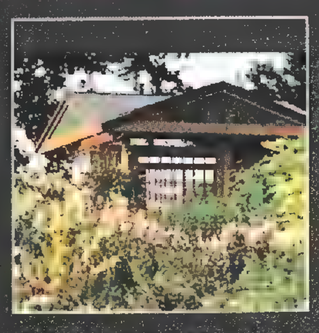

William T. Kemper Center Endowment Challenge

Missouri Botanical Garden

See return form over

Views of the Kemper Center for Home Gardening.

A Gift for the Future

Meeting the Kemper Endowment Challenge

We salute the following donors to the Kemper Challenge:

The Mary Ranken Jordan and Ettie A. Jordan Charitable Foundation

Lucy and Stanley Lopata

Mrs. D. J. Moore

Mr. and Mrs. C. J. Wright

Gift Planning

As the April 15th deadline for taxes swiftly approaches, many of us are assessing our current financial standing, and planning strategies for our future well-being and that of our families.

A planned gift to the Garden may yield substantial income, gift, and estate tax benefits. Additionally, through our charitable gift annuity program, or by establishing a charitable remainder trust, you can secure a guaranteed income for your lifetime. Carefully selecting the best asset with which to fund a charitable gift plan may actually allow you to contribute more at the same after-tax cost.

The estate planning process involves much more than finding tax-saving strategies. The best plans for you will balance what you wish to accomplish for yourself, your family, and for your charitable interests. Through this balance, you may find that you can create surprising and welcome benefits.

For further information on charitable gift plans please contact Judi Schraer, Planned Giving Officer, (314) 577-9455, or email: judi.schraer@mobot.org.

The Heritage Society

The Garden's Board of Trustees established the Heritage Society to honor members and friends who have made bequests or other planned gift arrangements in support of the Garden.

Among the benefits of Heritage Society membership are invitations to the annual spring Heritage Society dinner and special events throughout the year where you will have the opportunity to meet Dr. Peter H. Raven, members of the Garden staff, guest speakers, and other Heritage Society members.

If you have included the Garden in your estate plans, we hope that you will share this information with us. We would appreciate the opportunity to express our gratitude, and to welcome you into our Heritage Society. Of course, if you wish to be anonymous, we will respect your wishes.

New Members of the Peter H. Raven Society

Mr. and Mrs. L. B. Eckelkamp, Jr.

Mrs. Lois Punshon

Mr. and Mrs. James S. McDonnell III

Volunteers – We Need You!

Assist School Groups

The Education Division needs weekday volunteers to greet school groups as they arrive and help them find their way around the Garden. Volunteers are needed Monday through Friday, 9:30 a.m. to 12:30 p.m., from March 15 – June 9 and from September 5 – November 30. Please call Julie Knobbe, coordinator of school programs, (314) 577-0226.

Drive the Wilderness Wagon

Shaw Arboretum is recruiting drivers to conduct Wilderness Wagon tours through the Arboretum. Training will be provided. Please call the Arboretum, (636) 451-3512.

New Corporate Partners

Corporate Partners provide outstanding support for the Garden and receive wide recognition for their service to the greater St. Louis community. Corporate members are invited to many special events at the Garden throughout the year.

We are proud to announce three new members of the Corporate Partners Program. For more information, please call Rachel Hartmann, corporate/foundation officer, at (314) 577-9513.

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Liz Teasdale with the commemorative plate presented to her by the Board of Trustees.

Trustees Honor Members' Board President

MRS. Kenneth F. Teasdale completed a two-year term as president of the Members' Board in December 1999. The Board of Trustees honored her at their December meeting.

Liz joined the Members' Board in 1993, but she has been a member of the Garden for more than 30 years. "My mother-in-law gave us a gift membership, and we have been coming to the Garden ever since," she recalls.

During her term as president, Liz helped to celebrate an important milestone, the Garden's 35,000th member. Also during her term, the Members' Board introduced several popular new events for members, including "Breakfast with Santa," "A Garden of Gems" with Antoinette's Jewelry, and the Valentine Dinner Dance. The Board also saw the Young Friends' organization grow and become a successful new part of the membership program.

"Serving on the Members' Board is a wonderful experience because it is a working board very hands-on," Liz says. "Everyone gets involved in making the events a success. And I was thrilled to be associated with such a dynamic and environmentally forward looking institution."

Liz also serves on the board of Forest Park Forever.

Past presidents remain on the Members' Board as lifetime members. "This is one of the Garden's great strengths," Liz says. "It provides continuity and a strong sense of our heritage. All of our past presidents have remained active at the Garden, and I'm looking forward to continuing to work with this great organization."

Trustees

TIM PARKER

From left:
Jack Thomas, Stephen Brauer, and Peter Raven.

Board Elects New Officers

At their Annual Meeting February 9, 2000, the Board of Trustees elected Stephen F. Brauer as president, succeeding David W. Kemper. Mr. Kemper remains on the Board as a regular trustee.

Jack E. Thomas, Jr., was elected first vice-president. Carolyn W. Losos was named a regular trustee, and Charles F. Knight became an emeritus trustee.

Four new term trustees were named to the Board: Scott C. Schnuck, John E. Klein, and Nicholas L. Reding, and L. B. Eckelkamp, Jr.

Stephen F. Brauer Is New President

Stephen Brauer has been a member of the Board of Trustees since 1988, serving on committees for Long-range Planning, Buildings and Grounds, and the Executive Committee. He is the current chair of the Finance Committee. In 1994, Brauer and his family, including his mother, Jane Hunter MacMillan, established the Lois Whiteside Franklin Flower Trial Garden at the Kemper Center for Home Gardening in memory of his maternal grandmother.

A native of St. Louis, Brauer is president of Hunter Engineering Company and a partner of St. Louis Cardinal Baseball. He is a trustee of Washington University, where he serves on the Executive Committee. Active in community service, he is a director of the Municipal Theater Association and the St. Louis Area Council of Boy Scouts. He serves on the National Board of the Smithsonian Institution and as honorary consul to the Government of Belgium. He is a graduate of St. Louis Country Day School and Westminster College.

David W. Kemper Receives Henry Shaw Medal

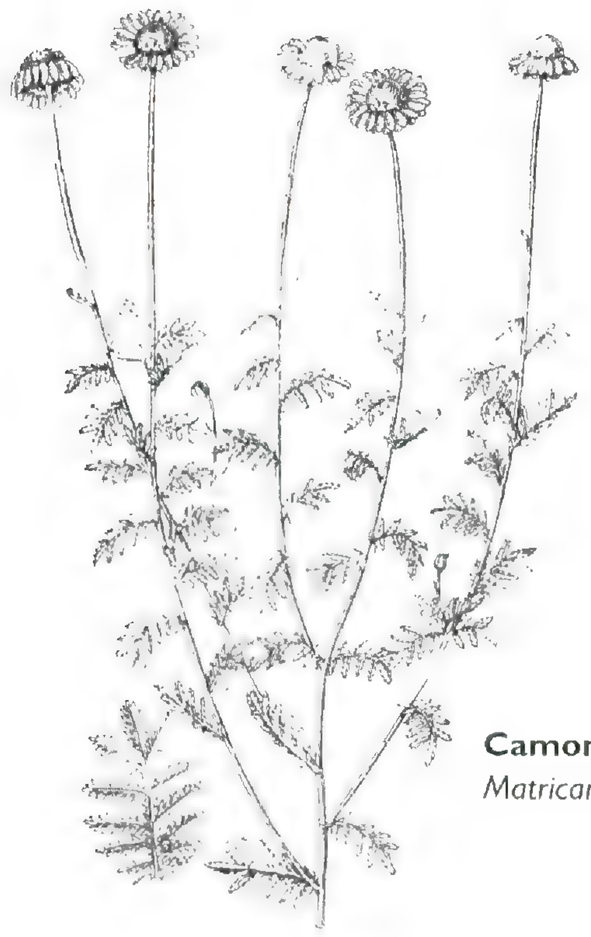
David Kemper received the Garden's highest award in honor of his service as president of the Board. In presenting the award, Stephen Brauer said, "David's leadership and commitment have been invaluable. His keen business acumen and insightful vision have led us solidly into the future."

During Kemper's two-year term the Garden dedicated The Monsanto Center, served as host to the XVI International Botanical Congress, achieved the milestone of 35,000 members, and mounted the herbarium's 5,000,000th plant specimen. The gala "Impressions of Giverny" raised $225,000 to benefit education programs and the restoration of Tower Grove House. And ground was broken for the new Dana Brown Overnight Educational Center at Shaw Arboretum.

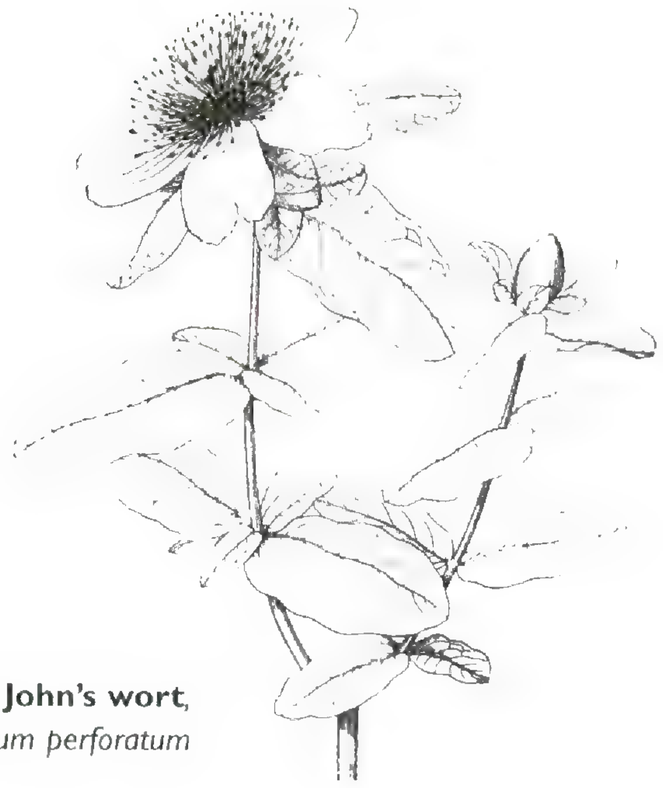
Through Kemper's leadership, the William T. Kemper Foundation made a magnificent $500,000 challenge grant to build endowment for the outdoor demonstration gardens at the Kemper Center for Home Gardening. His foresight and business expertise helped create a strong foundation for the Garden's financial future, which included establishing the Peter H. Raven Society and the Corporate Partners Program.

David Kemper has been a Garden trustee since 1987. He is chairman, president, and chief executive officer of Commerce Bancshares, Inc.

David Kemper with the Henry Shaw Medal



Camomile,
Matricaria recutita



St. John's wort,
Hypericum perforatum

Maidenhair tree,
Gingko biloba

The **FLOWER** *Pharmacy*

LONG BEFORE there were drugstores, people relied on nature for their remedies. Today more than 25 percent of prescription drugs are derived from plants. You can learn how to grow, use and prepare medicinal plants safely to enhance your sense of well-being and overall health.

Healing herbs can be added to food, made into teas, creams, tinctures, and salves, and distilled into aromatic oils. The key is to know what you are treating, which form of the herb to use, and the proper dosage. When purchasing herbal remedies, always follow product recommendations. There are many good books available to guide you.

Do not assume that plants leaves, stems, and roots are always safe when ingested or applied. Be aware of any precautions and always check with your doctor or pharmacist before using herbal treatments, particularly if you have allergies or are taking prescription medications.

This year the Kemper Center for Home Gardening will display a Medicinal Plant Garden in the Experimental Garden. Here are some of the plants you will find there and why.

Purple coneflower, *Echinacea angustifolia*, is a staple during cold and flu season. Echinacea is thought to ward off viruses and accelerate the recovery process by increasing levels of certain immune system chemicals found in the body. Because of its anti-bacterial properties, echinacea is a traditional Native American treatment for wounds, blood poisoning, and snake bites. Echinacea should be used with caution by people allergic to other plants in the aster family, such as ragweed.

St. John's wort, *Hypericum perforatum*, is a popular treatment for depression. It was described 450 years ago by a Swiss physician as a remedy for melancholy. Researchers have found that the plant's main active component, hypericin, reduces mild to moderate forms of depression. It also acts as a sleep aid. St. John's wort secretes a red oil when the leaves are bruised. Applied externally, this oil is reported to be excellent for treatment of wounds and first-degree burns. Use with care — external or internal use can cause skin to become very sensitive to sunlight. Also, if you are combining St. John's wort prescription medications for depression, be aware of possible drug interactions.

Maidenhair tree, *Gingko biloba*, has been used in China since the 15th century. Proven to increase

By Patricia Lamb

Patty Lamb was a volunteer at the Garden when she joined the staff at the Kemper Center for Home Gardening in 1995. She is a St. Louis Master Gardener, earned her bachelor of science degree in environmental studies from Arizona State University, and has a degree in horticulture from St. Louis Community College at Meramec. She recently was promoted to horticultural coordinator at the Kemper Center.

Purple coneflower, *Echinacea angustifolia*

blood flow to the brain, ginkgo is being used to treat age-related memory loss. It is also reported to improve alertness and act as a mood elevator. And if you have been out all night elevating your own mood, gingko can help alleviate your hangover by speeding up your metabolism of alcohol. Researchers are investigating gingko as a treatment for tinnitus, or "ringing in the ears." Compounds found in gingko extracts also reduce allergic and asthmatic reactions. Used in excess, gingko can cause irritability, headaches, and stomach upset.

Camomile, *Matricaria recutita*, has been used for centuries to soothe an upset stomach, relieve colic (both in people and horses), reduce inflamation, and heal cuts and bruises. It is listed as an official drug in 26 countries. Many people use it to reduce insomnia and nervousness. Camomile contains an easily absorbed form of calcium that reportedly promotes muscle relaxation. Boiling camomile apparently destroys the medicinal oils in the tea, so it should be steeped for several minutes. Conversely, steeping for more than ten minutes can release too much of the oil, which may upset the stomach. Drinking too much tea can cause restlessness. Again, caution is in order for people allergic to ragweed.

Arbor Day Is April 7

Celebrate "Missouri's Mighty Oaks"

Arbor Day in Missouri is always the first Friday in April. At the Kemper Center, we will be giving away 300 oak seedlings on a first-come, first-served basis to visitors to the Center on Arbor Day. The seedlings are provided by the Missouri Department of Conservation Tree Planting Program.

Missouri has 21 native oaks, and oaks are the most diverse group of trees in the state. Kemper Center will offer about six different oak species. Talk to staff at the Center about planting trees and pick up a free tree planting guide.

An Herbal Gathering

To Benefit the Renovation of the Historic Herb Garden at Tower Grove House

Presented by the St. Louis Herb Society and the Ladue Garden Club

Wednesday, April 12, 2000

Chase Park Plaza, 212 N. Kingshighway Boulevard

Complimentary Valet Parking

Featuring James A. Duke, Ph.D., author of *The Green Pharmacy*

Enjoy a very special day of seminars, the luncheon, prizes, and fun with herbs. Experts from the St. Louis Herb Society will present two morning lectures: "Herbs in the Garden: From Designing to Harvesting" and "Herbs in Action: From Feasting to Gifting."

- **Enjoy the Marketplace — Featuring herbal and gardening items for purchase.**
- **Enter the Raffle — Win the fabulous prize of an herb garden designed and installed by Gilberg Perennial Farms and Larkspur.**

Dr. Duke, a dynamic and popular speaker, is one of the world's leading authorities on medicinal uses of herbs. The former chief of Medicinal Plant Resources at the United States Department of Agriculture and a consultant to the National Institute of Health and the World Health Organization, Dr. Duke has traveled and lectured throughout the world on his studies of ethnobotany. He is a contributor and advisor to numerous scholarly publications about herbs and the author of some 20 books.

Tower Grove House, built in 1851, was the country home of Henry Shaw, founder of the Garden. The Herb Garden was installed in 1964 by the St. Louis Herb Society. Designed by Edith Mason, it shared the space with a companion perennial garden until 1976, when the entire space was devoted to herbs. The charming sundial, a gift of Mrs. Herman Husch, and Herb Society member, came from England and was installed in 1965. The St. Louis Herb Society has been active at the Missouri Botanical Garden for nearly 60 years. The popularity of growing herbs in this part of the country is due to the enthusiasm and activities of the society's members.

R.s.v.p by April 5

Tickets begin at $75 per person. Reservations are limited please respond by April 5. To receive an invitation or make a reservation, please contact: Barb Ottolini at (314) 532-4644, or visit www.stlouisherbsociety.com.

"An Herbal Gathering" is underwritten by Anheuser-Busch Companies and Emerson Electric Company. Co-sponsored by St. Louis Homes & Lifestyles.

ALL NEW!

The Gardeners' Marketplace

The Annual Spring Plant Sale Is Outdoors and All New –
The one place in town with everything for your spring garden!

There will be more plants, larger plants, and bigger displays with wide aisles. Shopping carts will be available, or bring your own wheelbarrow!

The Garden Gate Shop and the Horticulture Division are collaborating with a group of outstanding local nurseries to produce a truly remarkable spring plant extravaganza. We are fortunate to have the support of Bowood Farms, Garden Heights Nursery, Jost Greenhouses, Sugar Creek Gardens, Cottage Gardens, and Gilberg Plant Farm.

John McPheeters, owner of Bowood Farms and president of the Garden Club of St. Louis, and Nita van der Werff, a landscape gardener and photographer, are providing expert help and support in planning for the event. "The Garden is a great resource for St. Louis," said McPheeters. "This is our way of giving something back."

"This is a sale for people who really love to garden," said van der Werff. "We are offering a carefully edited collection of the very best plants for the St. Louis area from the finest local growers. We are going to have a lot of fun plants, including many of the wonderful species that you see growing at the Garden."

- **"Instant Gardens" – Containers planted with exciting and unusual combinations of colors, shapes and textures, attractively priced and ready for presentation**
- **Tender Perennials – Many new to the St. Louis area**
- **Large Selection of Trees and Shrubs**
- **Aquatic Plants and Materials**
- **Summer Flowering Bulbs – Exciting new cultivars**
- **Heirloom Vegetables – Very unusual and spectacular selection**
- **Herbs – Culinary and medicinal**
- **Plants of Merit – A full collection**
- **MBG Signature Plants**
- **The finest gardening tools, books, gifts and accessories**
- **Workshops & Strolling Experts – Local growers, MBG horticulture staff, St. Louis Master Gardeners, plant societies, and the Gardening Botanists!**

April 26 Wednesday
"First Choice" Members' Preview
3 to 7:30 p.m. Refreshments will be served. Free, for members only.
April 27 Thursday
Members' Preview Day
9 a.m. to 7 p.m. Refreshments will be served.
Free, for members only.
April 28 Friday
Sale opens to public: 9 a.m. to 7 p.m.
April 29 & 30 Saturday & Sunday
9 a.m. to 5 p.m. daily.
20% members' Discount, all 4 days

TIM PARKER

From left: Isabelle Morris, Donna Walker, and Holly Brigham with the Signature Plants for this year.

MBG Signature Collection

A Growing Partnership

Where in the world can you buy a bottlebrush buckeye? Or an Alabama snow wreath?

The MBG Signature Collection features dozens of species propagated from the beautiful and unusual plants growing at the Garden. Thanks to the efforts of volunteers and staff, hundreds of these special plants will be available at the Spring Plant Sale.

This year be sure to look for the hardy boxwood *Buxus sempervirens* 'Henry Shaw,' offered in honor of the 200th birthday of the Garden's founder. There is also a special offering of plants selected for the new German Strassenfest Garden.

The Signature Collection began a decade ago with two dedicated Garden members, Holly Brigham and Isabelle Morris. Realizing that there was great demand to purchase unusual plants locally, they launched the Signature Collection in 1990 and held their first sale in 1991. Five years ago, Donna Walker joined the team.

"We couldn't do this without the enthusiasm and support of the horticulture staff — it's a real partnership," said Holly. "We dig, divide, take cuttings from plants on the grounds, and grow them in the greenhouses. Staff let us know when special things are available, including seed or extra plants from new displays. Cathy Pauley, the greenhouse supervisor, acts as our liaison and helps supervise the daily care of the plants."

The hard work pays off — the annual sale supports continuing education for the horticulture staff and helps promote the Garden's mission to share knowledge about plants. Visit the Spring Plant Sale this year and take a little piece of the Garden home with you!

MARY BUTKUS

From left: Olga Martha Montiel, general manager of the Shop, Nita van der Werff, and John McPheeters

Calendar of Events

Mar.&Apr.

Garden Expo 2000

4 Weekends of Family Fun and Ideas for Your Home Garden!

- Greenhouse Tours with Horticulture Staff
- Annual Spring Plant Sale
- Garden Gate Shop Special Promotions
- Regional Plant Societies, Shows and Sales
- Outdoor Interpretation Carts
- Garden Art & Sculpture
- Attendance Prizes
- Children's Activities
- Family Entertainment

April 22 Saturday

Earth Day 2000

It's the 30th anniversary of Earth Day! Participate in the MBG Plastic Pot Recycling Project and enjoy activities and displays by Missouri Environmental Fund, St. Louis Teachers' Recycle Center, Art from Recycled Materials, and more.

April 23 Sunday

Easter

Celebrate at the Garden with family and friends.

April 29 & 30
Saturday & Sunday

Gardeners' Marketplace

The Garden Gate Shop's annual spring plant sale expands outdoors with a wonderful new array of unusual plants. Display by Henry Shaw Cactus Society.

May 6 & 7
Saturday & Sunday

The Merry Month of May

Delight in "Wild Whimsical Wonders," outdoor sculpture at the Kemper Center for Home Gardening, and see the model train tooting around the track in the children's garden. Bonsai Society Show and Sale.

May 13 & 14
Saturday & Sunday

Mother's Daze

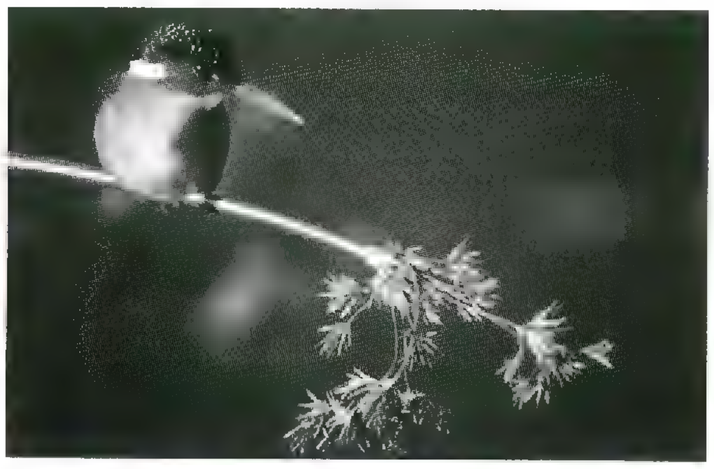
The perfect outing for Mother's Day features the Rose Society Mini Rose Sale, Dahlia Society Sale, St. Louis Horticultural Society Show and Sale, and the St. Louis Audubon Society Migratory Bird Week Exhibit.

March & April Events

"Leopard with rising moon," by Jamie Thom

"Infant orang-utan," by Anup Shah

"Spotted mantis," by Chalk-Seng Hong



"Malachite kingfisher," by Nick Wilton

April 6 – May 4

Wildlife Photographer of the Year Exhibition

9 a.m. to 5 p.m. daily, Monsanto Hall. Magnificent photographs by some of the world's leading wildlife photographers are winning entries from the famed BG Wildlife Photographer of the Year Competition, organized by BBC Wildlife *Magazine and The Natural History Museum, London and sponsored by BG International. Free with Garden admission or membership.*

March 1 – 12

Tropical Treasures: Orchids of the Ancient Aztecs

9 a.m. to 5 p.m. daily, Orthwein Floral Hall. Annual Orchid Show continues. Flower show admission: $2 adults, $1 seniors, free to children 12 and under, free to members.

March 1 – 24

Plants of Conservation Concern and their Communities

9 a.m. to 5 p.m. daily, Monsanto Hall. Exhibit of photographs by Casey Galvin continues. Free with Garden admission or membership.

March 5 Sunday

SHAW 200TH ANNIVERSARY EVENT

"Henry Shaw's Contribution to the Architecture of St. Louis"

2 p.m., Stupp Center, Tower Grove Park. Friends of Tower Grove Park Lecture Series presentation by Carol Grove. Free. Call (314) 771-2679 for information.

March 9 – 16

"A Future with Hope"

9 a.m. to 5 p.m. daily, Grigg Lobby. The Metropolitan School District Millennium Art Show presents a juried exhibition of works by students in grades 6 – 12, on the theme of biodiversity. Free with Garden admission or membership.

March 13 Monday

Joy Larkham: "The Magic in Vegetable Gardening"

Lectures at 1 p.m. and 7 p.m., Shoenberg Auditorium. Joy Larkham is an internationally renowned authority on growing Asian vegetables. Admission to each lecture is $20 members, $25 non-members. See the adult education brochure mailed recently to all members, or call (314) 577-9441.

March 14 Tuesday

SHAW 200TH ANNIVERSARY EVENT

Chamber Music Concert

7 p.m., Piper Palm House, Tower Grove Park. Featuring members of the St. Louis Symphony. Seating is limited; for reservations, call (314) 286-4432. Free.

March 18 Saturday

Garden StoryTime

11 a.m., Garden Gate Shop Book Department. Hear magical tales of the forest and fairies from professional storyteller Gale Portman and use potato stamps to create a shamrock picture to take home. For children ages 4 to 10. Parents and guardians are welcome to attend, and children under 4 must be accompanied by an adult. All children's books are an additional 10% off for those attending StoryTime. Admission is free, no reservations.

April 2 – 30 Sundays

SHAW 200TH ANNIVERSARY EVENT

"From the Garden Live"® Concert Series

Noon, Shoenberg Auditorium. Performances broadcast live on 99.1 FM, sponsored by KFUO-FM and the Garden. Call (314) 725-0099 for ticket information. Concert admission is free.

March & April Events

April 1 – 30

National Poetry Month

9 a.m. to 5 p.m. daily, Garden Gate Shop. Take an additional 15% discount on all nature poetry books for adults and children.

April 8 & 9
Saturday and Sunday

Lily Society Spring Bulb Sale

Saturday, 9 a.m. to 4 p.m.; Sunday, 9 a.m. to 5 p.m., Monsanto Hall. Presented by the Mid-America Regional Lily Society. Free with Garden admission or membership.

April 8 & 9
Saturday and Sunday

Daffodil Show

9 a.m. to 5 p.m. daily, Orthwein Floral Hall. Presented by the St. Louis Daffodil Society. Free with Garden admission or membership.

April 8 & 9 Saturday & Sunday

Grand South Grand House & Garden Tour

11 a.m. to 5 p.m. Also attend "A Picnic in the Park" at Reservoir Square Park. The Water Tower will be open. For tickets and information, call (314) 773-4844.

April 11 Tuesday

SHAW 200TH ANNIVERSARY EVENT

Chamber Music Concert

7 p.m., Piper Palm House, Tower Grove Park. See March 14 for details.

April 12 Wednesday

An Herbal Gathering

Benefit for the Herb Garden at Tower Grove House, presented by the Ladue Garden Club and the St. Louis Herb Society. See page 9 for details.

April 15 Saturday

Garden StoryTime

11 a.m., Garden Gate Shop. Author Betsy Hearne tells the story "Something Out of Nothing." All children will receive a free bookmark and postcard. See March 18 for details.

April 15 & 16
Saturday & Sunday

African Violet Show and Sale

9 a.m. to 5 p.m. daily, Orthwein Floral Hall. Presented by the Metropolitan St. Louis African Violet Council. Free with Garden admission or membership.

April 16 Sunday

Langston Hughes Black Poetry Festival Opening Ceremony

4 p.m., Shoenberg Auditorium. Local and nationally recognized poets read works in honor of Hughes, an African American poet born in St. Louis, and National Poetry Month. Free with Garden admission or membership.

April 18 Tuesday

JANE AND WHITNEY HARRIS LECTURE:

"Smallholder Timber Management in Amazonia"

7:30 p.m., Des Lee Auditorium, Missouri Historical Society. Lecture by Dr. Christine Padoch, curator at the Institute of Economic Botany, The New York Botanical Garden, presented by the International Center for Tropical Ecology, University of Missouri-St. Louis. Refreshments following the lecture. Free.

April 29 Saturday

SHAW 200TH ANNIVERSARY

Victorian Street Fair

Following 11 a.m. service, Christ Church Cathedral. Call (314) 231-3454.

April 30 Sunday

SHAW 200TH ANNIVERSARY

"Flower Sunday"

Services at 9 and 11:15 a.m., Evensong at 5 p.m., Christ Church Cathedral. Call (314) 231-3454.

April 30 Sunday

SHAW 200TH ANNIVERSARY

"How to Read Hamlet and Why"

4 p.m., Shoenberg Auditorium. Friends of Tower Grove Park Lecture Series presents America's preeminent literary critic, Harold Bloom, Sterling Professor of Humanities at Yale University. For information, call (314) 771-2679. Free.

March 14 Tuesday – Members' Day

The 1904 World's Fair

11 a.m., Shoenberg Auditorium. Sue Oertli gives an encore presentation of the popular lecture developed by her mother, using photographs taken at the Fair by Sue's grandfather. In the Garden Gate Shop, members receive an extra five percent discount on The World Comes to St. Louis: A Visit to the 1904 World's Fair. *Seating is on a first-come, first-served basis. Free, for members only.*

April 13 Thursday – Members' Day

Wildflowers of South Africa

11 a.m., Shoenberg Auditorium. Join Dr. Larry DeBuhr, MBG director of education, for a look at the thrilling scenery and magnificent native flowers of South Africa. In the Garden Gate Shop, members receive an extra five percent discount on selected books on South African wildflowers and Uthingo ceramics. Seating is on a first-come, first-served basis. Free, for members only.

March & April Events

The Great Perennial Divide

April 29 Saturday

Share your extra garden treasures with community gardeners! Last year some 17,000 potted plants were donated to more than 80 groups, and over 500 volunteers participated. Sponsored by Gateway Greening, Inc.

If you need help preparing your plants, call for a digging crew from April 1 to 15.

As a special thank you, there will be a plant sale exclusively for our volunteers and donors on April 28.

Great Perennial Divide Hotline: (314) 577-9484

Collection Sites Open April 16 – 22

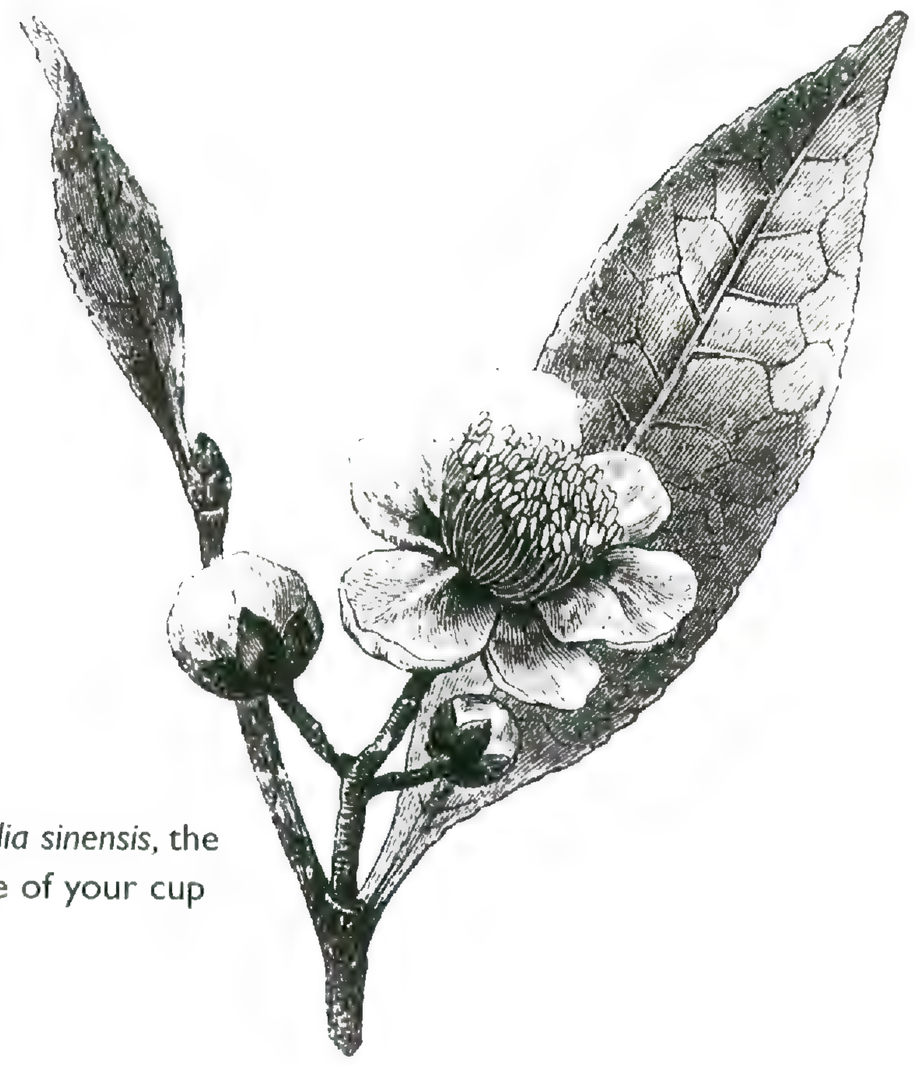
Volunteers will be at each site to receive and care for your plants. Pots and soil mix available. Call (314) 577-9484 for locations:

- *Affton/Sunset Hills/South St. Louis*
- *Chesterfield* • *Clayton/Ladue/Frontenac*
- *Creve Coeur/Maryland Heights*
- *Hazelwood/Bridgeton* • *Kirkwood/Fenton*
- *Kirkwood/Webster Groves/Ballwin*
- *Lake St. Louis* • *South County*
- *St. Louis City/Dogtown* • *St. Charles*
- *University City* • *West County*

Here's What We Need:

(No orange daylilies or invasive mints, please!)

- *Annuals*
- *Bulbs*
- *Ground Covers*
- *Ornamental Grasses*
- *Perennials for Sun or Shade*
- *Rhizomes*
- *Seeds and Seedlings*
- *Shrubs*
- *Tools and Hoses*



Camellia sinensis, the source of your cup of tea

March 29 Wednesday

"Just Your Cup of Tea"

10 a.m., registration, with tea and scones. 2 p.m., tea will be served. Ridgway Center. A day celebrating the delights of tea and entertaining. Featuring Elizabeth Knight, noted author of Celebrations! Presentations, Parties, and Creative Events. *With displays by local merchants and party planners. $50 members, $60 non-members, $15 children 12-18, who must be accompanied by an adult. Includes an autographed copy of Knight's book* Tea with Friends *and special discounts in the Garden Gate Shop. Presented by the Tower Grove House Auxiliary, to benefit Tower Grove House. Reservations are required — please call (314) 577-5150. Deadline for reservations is March 23.*

Members

TIM PARKER

New Officers, from left: Marsha Rusnack, recording secretary; Susie Schulte, president; Anne Hizar, second vice-president; and Martina Dill, corresponding secretary. Not pictured: Carol Squires, first vice-president; and Glee Stanley, treasurer.

New Members who have joined the Board, from left: Holly Brigham, Aaron Fields, Rich George, Carrie Polk, and Cheri Fromm.

Members' Board Elects New Officers

At their Annual Meeting on January 3, 2000, the Members' Board elected Susie Schulte as president.

Save the Date – Friday, May 12

Mother's Day Luncheon

Celebrate with your mother and special guests at a lovely Victorian luncheon and a spring fashion show under the outdoor tent. Watch for your invitation in the mail. Don't forget a Garden membership makes a great Mother's Day gift!

Tower Grove House

Thank You to Holiday Decorators

We are very grateful to the following organizations and individuals who assisted with the beautiful holiday decorations at Tower Grove House this year:

Joan Abeln

Jacqueline Becker

Botanicals on the Park

Daryl Cimiglia, MBG Horticulture Division

Four Winds Garden Club

Julie Hess, MBG Horticulture Division

Kirkwood Herb Guild

Mason Jar Questers

Mehlville Garden Club

Missouri Botanical Garden Historical Committee

Missouri Botanical Garden Members' Board

St. Louis Herb Society

Southwoods Garden Club of Shrewsbury

You Can Win!

Celebrate the 200th Birthday of Henry Shaw!

This year when you purchase a new Garden membership or renew an existing one, you will receive a beautiful tea tin decorated with scenes of the Garden and filled with Stewarts Private Blend Tea. Some tins will contain surprise coupons from Borders Books & Music, Café Mira, Hanks Cheesecakes, the Garden Gate Shop, Remy's Kitchen & Wine Bar, Stages St. Louis Theater Co., Wild Birds Unlimited, and more.

Plus, everyone who purchases a membership this year is eligible for a drawing for two round trip air fare tickets to London to visit the Royal Botanic Gardens, Kew!

(No purchase necessary. Call (314) 577-5118 for details.)

MARY BUTKUS

Tropics 2000

The Young Friends of the Garden sponsored their annual winter bash on Saturday, February 5 and nearly 250 guests partied to the sounds of Metro. We extend our warmest appreciation to the sponsors for the evening: Anheuser-Busch, Earthgrains, Hereford Printing, Mt. Pleasant Winery, Pulaski Bank, and The River 101-FM.

This page, right: Daffodils bloom on the hillside below the Bascom Manor House. Opposite page, left: The Manor House in 1896, with the North family, who owned it in the late 19th century.

Opposite page, top right: Mirror Lake in the 1930s. Below, right: A school class visits the Experimental Prairie today.

Nurturing a greater understanding and appreciation of the natural world.

ON March 2, 1925, a group of Garden trustees gathered in an open field near Gray Summit, Missouri and agreed to purchase 1,300 acres to establish the "Gray Summit Extension" of the Missouri Botanical Garden.

Their need was urgent. Pollution from coal smoke in the city of St. Louis in the 1920s made it imperative to move the valuable plants at the Garden to the clean air of the nearby countryside. By 1926 the first greenhouses had been built on the Gray Summit property, and the Garden's valuable orchid collection was installed in 1927.

Smoke abatement ordinances enacted in the mid-1930s improved the air in St. Louis, but the orchids did not return to the city until 1958.

"A Collection of Cornfields"

From humble beginnings, "chiefly a collection of cornfields," in the words of Garden director George T. Moore, the Arboretum has grown to some 2,500 acres of restored habitats. It is a center for environmental education and a showcase for native plants and wildlife.

People have used the land on the banks of the Meramec River since Native Americans first hunted and camped there thousands of years ago. Farming and settlement in the 19th and early 20th centuries profoundly altered the landscape. From its beginnings, the Arboretum's mission has focused on restoring the natural landscape and enhancing biological diversity.

In the 1920s, horse drawn equipment was used to create the 60-acre Pinetum and its four-acre lake and plant the area with hundreds of species of conifers. Four smaller lakes were built, and thousands of daffodils, dogwoods, redbuds, and other trees were planted.

Growing and Planting

By 1933, when it was renamed "The Missouri Botanical Garden Arboretum," the facility still was not officially open to the public, though hundreds of people visited on weekends to view the orchids. Wildflowers had always been abundant in the woodland portions of the property, and they were augmented to more than five hundred species planted over some 300 acres. In 1941 the first of two wildflower trails opened to visitors, and the Trail House was built with support from the new Friends of the Garden organization.

August P. Bielmann, who managed the Arboretum from 1941 to 1957, developed the property as a demonstration and testing facility for modern methods of soil and water conservation. To make the Arboretum self-sufficient, Bielmann built a sawmill, raised cattle, and farmed a few hundred acres south of the Meramec.

In 1957, budget cutbacks at the Garden severely curtailed activites at the Arboretum. Things didn't pick up until David Gates, a scientist with a background in ecology, became director of the Garden in 1965. Gates encouraged the Arboretum's development as a center for environmental education and conservation activity.

Peter Raven became director of the Garden in 1971, and the following year the Secretary of the Interior declared the Arboretum a National Environmental Education Landmark. It was one of only 16 non-federal sites so designated.

Orchids at the Arboretum, 1950s

The Garden Board of Trustees renamed the facility Shaw Arboretum in 1976 in honor of the Garden's founder.

Serving the Public

In the past two decades, programs and features at the Arboretum have increased and matured. The Experimental Prairie, planted in 1980, has grown from 48 to over 100 acres. In 1990 a Master Plan was adopted to ensure that the Arboretum would preserve its natural beauty while enhancing its facilities to better serve growing numbers of visitors.

The Whitmire Wildflower Garden opened in 1993, as did the first phase of the constructed wetlands. The 1879 Manor House was restored and dedicated in 1995, in memory of trustee Joseph H. Bascom. The following year it opened to visitors with a splendid permanent

display, "People on the Land," funded by the Missouri Department of Conservation.

The Board of Trustees expanded its Arboretum Committee in 1997 to include participation by individuals who are not trustees of the Garden. The new members contribute expertise and a strong knowledge of the Arboretum and Franklin County.

Last June, ground was broken for the Dana Brown Foundation Overnight Educational Center. Together with the Adlyne Freund Education Center, renovated in 1998, the new facility will provide in-depth ecological field studies for children and adults.

Planting trees, 1948

Atendance at the Arboretum tells its own story. In 1980, 21,300 people visited; in 1999, the total was over 62,000. Today the Arboretum is a center for environmental education, serving everyone from adults interested in gardening with native plants to school classes learning about natural habitats. Nearly 16,000 children and adults participated in education programs last year.

John Behrer joined the full time staff of the Arboretum in 1978 and became its manager in 1983. In his words, "At the Arboretum, people of all ages can enjoy the beauty and serenity of nature, from tall grass prairie to wetlands to the beautiful Whitmire Wildlife Garden. For 75 years our mission has been to foster understanding, appreciation, and conservation of the natural world."

Supporting the Future

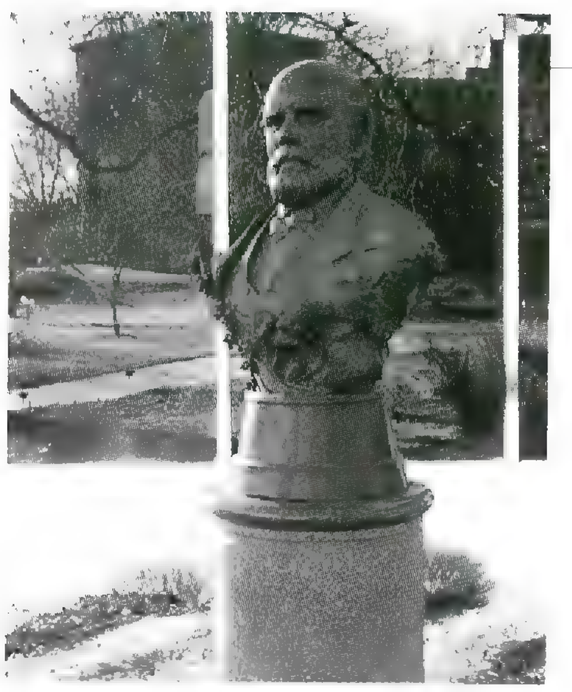
A proposed new Environmental Support Complex is a major component of the Arboretum Master Plan. The existing facilities for maintenance, horticulture, and education were built in 1927 and need extensive renovation to support the Arboretum's expanding programs and activities. Funding is currently being sought for improvements to the support complex and for two of the four cabins at the Dana Brown Overnight Educational Facility. For information on opportunites to support the future of Shaw Arboretum, please call Patricia Arnold, director of development, at (314) 577-5120.

75th Anniversary

AT THE ARBORETUM

A rustic gazebo overlooks a pond in the Whitmire Wildflower Garden.

News of Note



JACK JENNINGS

A bronze bust of Dr. George Engelmann was installed in the new Strassenfest German Garden at the south end of the Lehmann Building in January. Engelmann, a German physician who immigrated to St. Louis in the 1830s, was a noted botanist and served as a scientific advisor to Henry Shaw. The bust, by sculptor Paul Granlund, features some of the new species of plants described by Engelmann or named for him, including conifers, cacti, and grapes.

Granlund also created the bronze bust of the famed botanist, Linnaeus, at the north end of the Lehmann Building, the life-size bronze of Henry Shaw beside Tower Grove House, and the figure "Zerogee" near the Climatron.

The Strassenfest German Garden was planted last fall. Watch for things to start blooming this spring!

Raven Is President-Elect of AAAS

Peter H. Raven became the president-elect of the American Association for the Advancement of Science at the AAAS annual meeting in February. He will assume office in 2001.

Founded in 1848, AAAS is the world's largest federation of scientists. The society publishes the prestigious journal *Science* and conducts programs in science policy, education, and international scientific cooperation. Stephen Jay Gould of Harvard University was AAAS president for 1999.

Raven was recognized by the AAAS as a leading advocate for the preservation of biodiversity and for his leadership in building the Missouri Botanical Garden into one of the foremost botanical research institutions in the world. Raven also serves as chairman of the Committee for Research and Exploration for the National Geographic Society and a member of the President's Council of Advisors in Science and Technology. He is considered one of the world's leading scientists and was recognized by *Time* magazine as a "Hero of the Planet" for his work in understanding plants and the environment.

In Memoriam

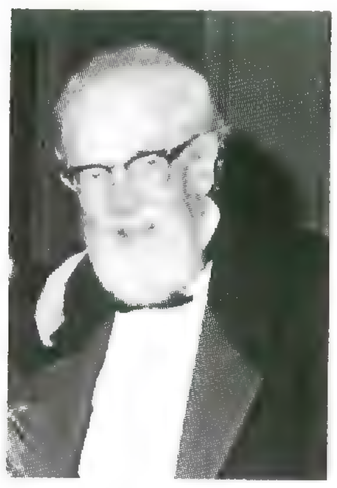
William G. D'Arcy, Ph.D.

WILLIAM D'ARCY, a research botanist at the Garden for 30 years, died December 16, 1999. He was 68.

Dr. D'Arcy retired as a senior curator last year. He specialized in the study of Solanaceae, the potato family, and did extensive work on classification of other tropical plant families. Dr. D'Arcy participated in dozens of collecting expeditions to tropical regions in Central and South America, Madagascar, and Asia, and was the author of many floristic treatments, scientific articles, and books.

A native of Calgary, Alberta, Canada, D'Arcy earned his undergraduate degree at the University of Edmonton. He began his career as an economist and became a botanist after developing an interest in plants while living in the British Virgin Islands. He earned a master's degree in botany from the University of Florida at Gainesville and a doctorate from Washington University.

A volume in the series *Monographs in Systematic Botany from the Missouri Botanical Garden* is being planned in tribute to D'Arcy's widespread botanical research. It will be published in his memory by MBG Press.



Joseph A. Ewan, Ph.D.

JOSEPH EWAN, botany professor, researcher, author, and Garden associate, died December 5, 1999. He was 90 years old.

Prof. Ewan and his wife, Nesta, were beloved friends and colleagues who were based at the Garden from 1986 to 1997. Prof. Ewan taught botany and the history of natural history at Tulane University in New Orleans for more than 30 years. In 1986, the Garden purchased the Ewan Collection, one of the world's finest private collections on the history of natural history.

In 1994, Joe and Nesta received the Garden's highest tribute, the Henry Shaw Medal, in honor of their lifetime achievements as 20th century interpreters of American natural history. Altogether they published more than 400 books, articles, essays, and reviews. The second edition of *Ewania: the writings of Joe and Nesta Ewan* (1989), will be published, making a complete listing of Ewan works available to natural history researchers.

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By leaving a bequest to the Garden, you create a legacy that will benefit others for generations to come. If you have already included the Garden in your estate plans, we hope that you will share this information with us. We would like to express our gratitude and welcome you into the Heritage Society. Of course, your wishes for anonymity are respected. Please call Judi Schraer, Planned Giving Officer, (314) 577-9455 for further information and a complimentary brochure.

Exclusive Gifts from the Missouri Botanical Garden

Left: Exquisite orchid art from the Rare Book Room adorns everything from tee shirts to notecards to magnets. And you will find the Garden's colorful Millennium Banner reproduced on coasters, notepaper, posters and more.

Below: Luxurious bath and beauty products from Davies Gate, made with botanical extracts of sage, lavender, and rose. Exclusively at the Garden Gate Shop in St. Louis.

"The Shop at the Garden"

Magnificent botanical art from the Garden archives is used to create very special gifts that you will find only at the Garden Gate Shop. Experience personalized shopping, custom gift selections, and exclusive gifts from all over the world.

Lots of Gifts under $25!

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B U L L E T I N

Missouri Botanical Garden

MAY / JUNE
2000

VOLUME LXXXVIII
NUMBER THREE

Henry Shaw on the balcony of his townhouse at 7th and Locust, c. 1850. The townhouse was moved to the Garden in 1891.

In the Footsteps of

HENRY SHAW, founder of the Garden and Tower Grove Park, was one of the leading citizens of St. Louis. Renowned for his hospitality and fine manners, Shaw delighted in escorting visitors through his Garden. On a memorable occasion, he was asked how he could remember the names of so many plants. "Madam, did you ever know a mother who forgot the names of her children?" he replied. "These flowers and plants are my children."

Shaw lived at Tower Grove House for much of his later life. He was "always glad to welcome visitors and having a host of friends, nearly every afternoon found a delegation calling upon the venerable gentleman at his beautiful homestead."* Callers included the leading citizens of St. Louis and such luminaries as King Kalakaua of Hawaii, Frederick Law Olmstead, Mrs. George Armstrong Custer, P.T. Barnum, and Horace Greeley.

In honor of Shaw's 200th anniversary, a series of special tours are being offered. At the Garden, visitors will explore the Victorian areas, focusing on buildings, trees, and statues left by Henry Shaw that remind us of the remarkable contributions he made to the development of culture, science, and recreation. Guides have been specially trained for this new tour, which will include a look at old photographs of the area and a brief visit inside Tower Grove House for a glimpse of the daily life and work at Shaw's country home. The tour will also include the magnificent Kresko Family Victorian Garden beside Tower Grove House, inspired by the fashionable carpet plantings of colorful annuals that were on display at the Garden in Shaw's era. The formal parterre displays a new color scheme in each season, designed for spring, summer, and fall. Nearby are the Victorian Maze and the Piper Observatory, which recreate a maze and tower Shaw installed in Tower Grove Park.

Tower Grove Park, located just south of the Garden, is the finest example of a city park from the Victorian period remaining in the United States and one of only four urban parks in the United States designated as a National Historic Landmark. Henry Shaw gave the 289-acre

* *Missouri Republican*, 8-26-1889

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Henry Shaw

200th Birthday Celebration

COMMON GROUND

Henry Shaw

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park to the City of St. Louis in 1868, and it opened to the public in 1872. Its ornate pavilions, stately carriage entrances of stone and cast iron, and the romantic mock ruins were all popular features of mid-19th century landscape design. Shaw personally designed the landscape as a walking and carriage park, with miles of roads and trails. He oversaw the planting of some 10,000 trees and shrubs suited to the climate, including Missouri natives and species from Europe, China and Japan. Today the Park boasts the nation's most diverse urban forest in a public park.

A combined tour of the Garden and Tower Grove Park will include the special tour of the Garden described above. The tour will proceed to the Park, where visitors will enjoy a box lunch and a tour by Park Docents. After lunch, the docents will lead visitors to various features of the Park, tailoring each presentation to the interests of the group.

In honor of the 200th anniversary of Shaw's birth, the Garden Guides and the Tower Grove Park Docents are offering special tours to transport visitors into the Victorian era of St. Louis in the late 19th century.

Victorian Areas at the Garden

May 3 – September 30, 2000 • 10 a.m.

Every Wednesday and Saturday morning. Tour lasts about one hour. Free with Garden admission or membership. Meet at the Ridgway Center. Groups can arrange to take the tour at other times; call (314) 577-5140 for group reservations.

The Garden and Tower Grove Park

May 3 – September 30, 2000 • By reservation only

The combined tour will last about 2-1/2 hours. $15 per person includes tram ride and box lunch. For reservations and information, call (314) 865-2394.

A SPECIAL BUS TOUR

Henry Shaw's Architectural Legacy

Thursday, May 11 • 10 a.m. to 3 p.m.

A special combined tour of the Garden, Tower Grove Park, and Shaw Place, Henry Shaw's planned neighborhood, is sponsored by the Tower Grove House Historical Committee, Tower Grove House Guides, the Garden Guides and the Tower Grove Park Docents. Bus transportation and box lunch are included. $40 members, $50 non-members. Please call (314) 577-9441 for reservations.

SAVE THE DATE

A Victorian Celebration

July 21, 2000

Plan now to attend a very special evening in honor of Henry Shaw's birthday. Watch for details.

Above: The Sons of Rest Shelter near the Grand Avenue entrance to Tower Grove Park was constructed in 1869. All the pavilions in the Park have recently been renovated to their original Victorian splendor.

Left: Henry Shaw seems about to walk in and sit down in his office in Tower Grove House. The House has been meticulously restored with beautiful antique furnishings of the period, many of which belonged to Shaw.

Far left: The Kresko Family Victorian Garden. The Museum Building is in the background.

Comment

Missouri Botanical Garden Mission:
To discover and share knowledge about plants and their environment, in order to preserve and enrich life.

OUR SPRING CELEBRATION of the 200th anniversary of Henry Shaw presents a panoply of special events at the Garden and Arboretum, from Rose Evening to the Native Plant Sale to the Whitaker Jazz Festival. Mr. Shaw himself delighted in staging spectacular events, complete with music, to attract and entertain visitors to his Garden. His hospitality was an extension of his desire to improve the quality of life through science, education, and horticultural beauty.

It is easy to sense Mr. Shaw's love for music, art, and other forms of culture as we admire the beautiful Victorian buildings and plantings in the Garden and Tower Grove Park. Today we honor his generous spirit with events that serve the entire St. Louis community.

Enriched by this history, the Garden looks forward to a strong future. Our strategy for the next decade brings to the forefront our commitment to conservation and sustainable development, to education in the St. Louis region, to serving as a catalyst for strengthening the neighborhoods adjacent to the Garden, and to improving and expanding visitor facilities and our environmental education programs at the Shaw Arboretum. Watch for more about these developments in future issues of the *Bulletin*.

Many people are not so fortunate elsewhere in the world. When natural disaster strikes, their suffering demands our compassion and assistance. For nearly three decades, the Garden has had an intensive program of botanical research and training on the island nation of Madagascar off the east coast of Africa. In February and March, Madagascar was devastated by two powerful tropical storms, which killed at least 150 people and left more than 600,000 without food and shelter. Armand Randrianasolo of the Garden's Research Division is from Vatomandry, located in the center of the disaster area. We knew that contributions carried to Vatomandry by staff who work in Madagascar would have a direct and immediate impact. The Garden staff responded with donations of more than $3,600 in one week, which the Garden matched. I am very proud of our staff, and I thank everyone who contributed. To participate in the relief effort, you may contact Michael S. Olson, the Garden Controller, at 314-577-5160.

Since Henry Shaw dedicated his Garden to serving humanity more than 140 years ago, the Garden has brought people together to contribute to a better society. Today we continue to share in these endeavors, working to make the world a better place to live as we seek to preserve the earth's biological diversity for future generations.

—Peter H. Raven, Director

Mailing Address:
Missouri Botanical Garden
Post Office Box 299
St. Louis, Missouri 63166-0299
(314) 577-5100

Visit the Garden Web site:
www.mobot.org

Garden Hours
9 a.m. to 5 p.m. every day except Christmas; 9 a.m. to 8 p.m. Memorial Day through Labor Day. Grounds open 7 a.m. Wed. & Sat.

Shaw Arboretum:
(636) 451-3512 (toll free from St. Louis)

24-Hour Information:
GardenLine – (314) 577-9400
Or call 1-800-642-8842.

24-Hour Gardening Tips:
HortLine – (314) 776-5522
Or see www.mobot.org

Employment/ Volunteer Hotline: (314) 577-9401
Or see www.mobot.org

Horticulture Answer Service:
(314) 577-5143
9:00 a.m. to noon, Mon. – Fri.

Recycling/Compost Hotline:
(314) 577-9555
9:00 a.m. to noon, Mon. – Fri.

On the Cover
Irises bloom in the Goodman Iris Garden in May.

Photo by Jack Jennings

Editor
Susan Wooleyhan Caine

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The BULLETIN is sent to every member of the Garden as a benefit of membership. For a contribution of as little as $55 per year, members also are entitled to: free admission to the Garden, Shaw Arboretum, and Tower Grove House; invitations to special events and receptions; announcements of all lectures and classes; discounts in the Garden Gate Shop and course fees; and the opportunity for travel, domestic and abroad, with other members. For information, call (314) 577-5118.

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At the Arboretum

The Lichtenstein Cabin is being meticulously constructed at Shaw Arboretum using traditional craftsmanship. When the cabin is finished, it will have a two-story front porch.

Lichtenstein Foundation Gives Cabin for New Education Center

AN HISTORIC LOG CABIN has been named in honor of the David B. Lichtenstein Foundation at Shaw Arboretum. A generous gift from the Foundation supports the construction and upkeep of the cabin, which will be part of the new Dana Brown Foundation Overnight Educational Center.

The Lichtenstein Foundation was established in 1947. It primarily supports capital projects for educational, scientific, religious, charitable and literary purposes in Missouri.

When complete, the Dana Brown Foundation Overnight Educational Center will consist of four log cabins for sleeping and a post-and-beam assembly hall. All are restored mid-19th century buildings from the region. The Center also includes the Adlyne Freund Education Center, which will serve as the dining facility. The Center is designed to accommodate 65 childen or smaller groups of adults. The Center will provide opportunities for in-depth ecological field studies and a chance to gain an understanding of the natural world on a more profound level.

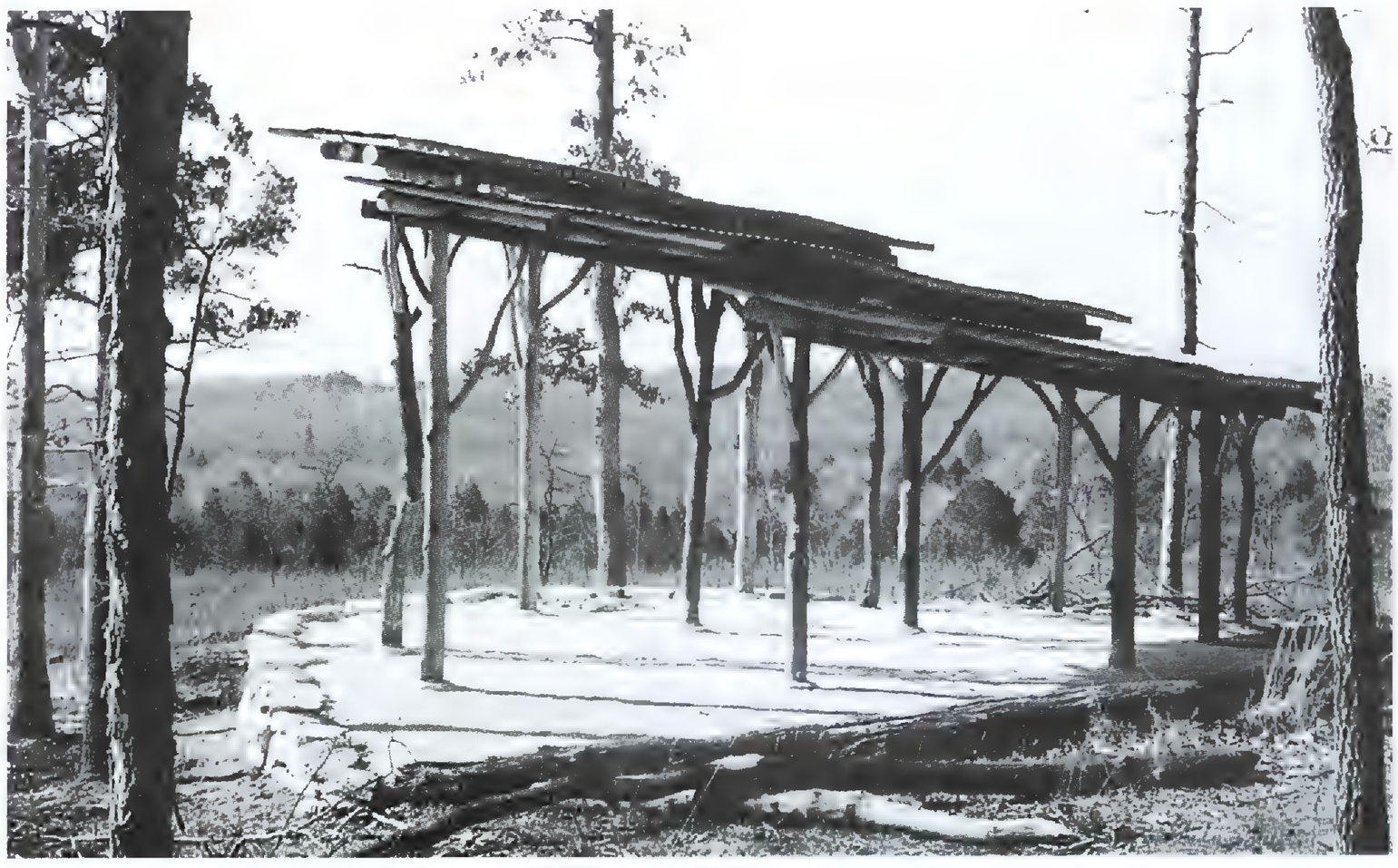
For information on donating an historic cabin or other gift opportunities at Shaw Arboretum, please call Patricia Arnold, director of development, (314) 577-5120.

The New Glade Overlook

A BEAUTIFUL NEW OVERLOOK at Shaw Arboretum brings the beauty of the Ozark landscape within reach of all visitors. The overlook is accessible to wheelchairs and is wonderful for visitors who find walking difficult. The feature was made possible by generous gifts from Mrs. A. Timon Primm III and from Charles and Mary Klauke, whose gift was made in memory of Mrs. Klauke's mother, Dolores Kapsh Wright.

The overlook is located on a paved path that winds from the Trail House parking area through open oak woodland to the edge of the glade. A viewing scope has been installed to enhance enjoyment of the breathtaking view, which encompasses the restored Crescent Knoll Glade and the distant rolling hills of the Meramec River Valley.

The overlook shelter is beautifully crafted from natural materials and blends with the surrounding landscape. In their natural state, glade areas contain an abundance of beautiful wildflowers, including Indian paint brush, pale purple coneflower, false blue indigo, bird's foot violet, shooting star, yellow star grass, Missouri evening primrose, and many more. The glades also provide habitat for birds, butterflies, and other wildlife.



The Arboretum makes habitat restoration and increasing biological diversity a priority, together with environmental education and increasing appreciation and understanding of the natural world. Over the last three years, invasive eastern red cedars have been removed from 37 acres of glade and oak savannah habitat by a dedicated corps of hard working volunteers, thanks to the generous support of the Edward K. Love Conservation Foundation.

Trustees

New Trustees Join Board

FOUR NEW TRUSTEES were elected at the annual meeting of the Board on February 9, 2000.

L. B. Eckelkamp, Jr., is chairman of the board and chief executive officer of the Bank of Washington in Washington, Missouri. He also is the chairman and president of Cardinal Bancorp, which owns the United Bank of Union and Citizens National Bank of Greater St. Louis. Eckelkamp has many additional business interests and has served on the Garden's Arboretum Committee for three years. He is an honorary board member of the Missouri Easter Seal Society and chairman of the board of the Greater St. Louis Area Council of Boy Scouts of America.

John E. Klein is president and chief executive officer of Bunge Corporation and has served in that position for nearly 15 years. Klein has worked for the Bunge Group for nearly 24 years in Antwerp, Rotterdam, London, Sao Paulo, Buenos Aires, New York, and St. Louis. Klein moved Bunge Corporations headquarters to St. Louis from New York in 1990. He currently serves on the boards of Mary Institute and St. Louis Country Day School and Shakespeare St. Louis.

Nicholas L. Reding is chairman of the Board of the Nidus Center for Scientific Enterprise, a St. Louis business incubator for entrepreneurs in plant science and biotechnology. Previously, he was vice chairman of the board of Monsanto Company from 1993 until he retired in 1998. Reding is past chairman of the National Agricultural Chemicals Association and has served on the boards of several organizations, including St. Louis Children's Hospital and St. Louis Symphony Orchestra, and was on the Conference Board's council on environmental affairs.

Scott C. Schnuck has been president and chief operating officer of Schnuck Markets, Inc., a privately held chain of more than 90 supermarkets in St. Louis and the Midwest, since 1991. He has been with the company since 1975. Schnuck is a member of the Board of Directors of St. Louis Children's Hospital, St. Louis Regional Chamber and Growth Association, Variety Club, Christmas in St. Louis, St. Louis Sports Commission, and Topco Associates, Inc. He is chairman of the board of Junior Achievement of Mississippi Valley, Inc.

In Appreciation

THREE TRUSTEES completed their terms on the Board in January. They gave generously of their time, energy, and expertise, and the Garden extends its profound thanks and appreciation for their service.

Parker B. Condie was elected to the Garden Board in 1992 and completed two full terms. Condie served on committees for awards, buildings and grounds, development, and investment. A native of St. Louis, he remains active in many St. Louis area organizations.

Martin E. Galt III joined the Board as a term trustee in 1998. "Sandy" Galt was a senior executive for Bank of America and has moved to New York to take a position with TIAA-CREF. He served on the Investment Committee.

John W. McClure was elected as a term trustee 1994. McClure was a senior executive with Mercantile Bancorporation and active in many civic and professional organizations. He was a member of the Development and Investment committees.

Wightman and McPheeters Named to Arboretum Committee

THE ARBORETUM COMMITTEE of the Board of Trustees includes several members who have been invited to serve because of their expertise and dedication to the Arboretum.

O. Sage Wightman III is the new chair of the Arboretum Committee for 2000. Wightman, a former president of the Board of Trustees, now serves as an emeritus trustee of the Garden. He is a partner in Stifel, Nicolaus & Company Incorporated.

John McPheeters has been named as a member of the Arboretum Committee. McPheeters is owner of Bowood Farms, a local wholesale nursery, which grows a wide variety of native Missouri plants and prairie species. McPheeters is a longstanding admirer of the Arboretum and its work in restoring native plant communities and has worked closely with the staff on programs that encourage the use of native plants. McPheeters is president of the Garden Club of St. Louis and recently served as a volunteer consultant for the Garden's Spring Plant Sale. He is a long-time member and supporter of the Garden.

Gifts & Grants

A Teacher's Generosity

The late Elsie Langenbach at the 1995 dedication of the E. Desmond and Mary Ann Lee Family Education Center.

THOUSANDS of teachers and tens of thousands of children have benefitted from the generosity of the late Mrs. Paul Langenbach.

Elsie Langenbach was a retired elementary school teacher who taught for many years in the Webster Groves school district. She cherished many memories of teaching the children of former students and seeing students who return for visits.

Mrs. Langenbach understood what teachers need to help their students learn. Her first gift to the Garden was made in 1992, in memory of her husband, Dr. Paul Langenbach, who loved to visit the Garden. Her contributions over the years supported teacher training, scholarships for children in the Henry Shaw Academy, and the development of kits of instructional materials for loan to classroom teachers. In 1995, Mrs. Langenbach made a major gift to provide a science classroom at the E. Desmond and Mary Ann Lee Family Education Center.

Education programs at the Garden are greatly enhanced as a result of Mrs. Langenbach's generosity. Her gifts made it possible to provide better classes and better science instruction for today's students and for future generations of children in St. Louis.

Gift Planning

Charitable Gift Annuities

YOLANDA TAYLOR has been a member of the Garden for 45 years and has loved it all her life. As she likes to say, "I started coming to the Garden as a child. In those days, the Japanese garden was just a slough for mosquitoes!."

"I am especially glad to see how the Garden is working to encourage children," Mrs. Taylor says. Education is one of her most important concerns. For several years in the late 1960s she was a volunteer for Ken Peck, the Garden's former head of education, helping to wash clay pots for classes of schoolchildren in the old greenhouse. Later she became a volunteer instructor at the Garden and taught classes for six years.

Providing a strong future for others while preserving financial security.

Mrs. Taylor is an expert gardener, and her home is filled with orchids she raises herself. She also remains active in the Federated Garden Clubs of Missouri. "Our objectives are very similar to those of the Garden," she said. "Education is so important if you know something, you want to share it. If you want to know, you find out."

Of her decision to establish a charitable gift annuity with the Garden, Mrs. Taylor said, "It is such a sensible thing to do. I cannot make a gift outright, but with an annuity I can help provide a strong future for others while preserving my financial security."

Yolanda Taylor

Donors who create a planned gift to the Garden become members of our Heritage Society and receive extra benefits, including a newsletter and invitations to special events throughout the year. If you have already included the Garden in your estate plans, we hope you will share this information with us. If you would like more information about charitable gift annuities or other types of gifts, please call Judi Schraer, planned giving officer, (314) 577-9455. Of course, there is no obligation and your wishes for anonymity are respected.

Home Gardening

ESPALIER

EVEN IF YOUR GARDEN IS SMALL, you don't have to give up the joys of growing flowering fruit trees and the delights of freshly picked apples and pears. Ever since the ancient Romans began training trees to grow along a flat surface, gardeners have been developing espalier into an art form.

Training a young plant to grow against a wall or along a wire trellis not only saves space — it can create beautiful ornamental effects. Pyracantha is a good choice, but almost any species that tolerates repeated pruning can be used. In Europe, espalier are widely used in orchards for commercial fruit production, and the practice is becoming more common in the United States.

Espalier can be coaxed into many attractive and functional shapes, from a simple fan to an elaborate cordon or palmette. Branches are pruned selectively to create symmetrical shapes as the trees grow. Be warned — espalier are not good choices for low maintenance gardens.

Choose a sunny location. If you are planting against a wall, an east or west-facing site is best, as a southern exposure can get too hot and north may not get enough sun. For a trellis, sink solid posts to support the cables. String rust-proof wire or cable between the posts or along a wall horizontally at 12 to 18-inch intervals, to a height of about six feet.

Apple or pear trees are the usual choices to espalier because they bear on fruiting spurs. Stone fruits, such as peaches or cherries, are more difficult

to train because they bear on new wood, which can hamper pruning.

Regardless of which fruit bearing species you choose, you must use a dwarf specimen. A standard fruit tree will quickly get far too large to train. Dwarf fruit trees are sold as grafted root stock of a true dwarf species which has "bud wood" from a standard species grafted on. It is the root that determines the size of the mature tree. When the tree is planted, the graft union must remain above ground, or the tree will sprout roots above the graft and lose its dwarfing capability.

The grafted trees can be purchased bare root or in pots. Plant bare root trees in early spring, after the last frost date. Potted trees can be planted at any time. We recommend starting with a three-year old bare root tree, three to four feet tall.

Training begins immediately. Select the branches that will grow in the desired direction and pinch off others. Tie each branch to a bamboo pole or other light, rigid stake to keep it straight while it grows, using masking tape, sisal rope, or soft twine to avoid injuring the tree. Do not use wire or twist ties that could girdle the branch as it grows.

Allow the straightened branches to grow until they reach the wire where they will be trained. Then start bending the branches to the wire and fasten with tape or soft twine, loosely tied. Once the tree reaches the desired size, keep pruning to limit its growth. This will require lots of summer pruning to remove branches and suckers as needed. Pruning espalier is a continual process if you wait too long, it will be more difficult to maintain the shape.

Once trees are established and start fruiting, their growth will slow. As you train your tree, encourage branches to form where you need them by making a small, shallow cut in the bark with your thumbnail just above a bud. You can also encourage fruit to form where desired by making a similar small cut just below a bud.

To see some fine examples of espalier, visit the demonstration fruit and vegetable gardens at the William T. Kemper Center for Home Gardening.

Walter R. Behrendt, Jr., is pictured at left pruning espalier apple and pear trees in the Kemper Center demonstration gardens. Walt is a 28-year veteran of the Horticulture Division. His current assignment is planting and maintaining the vegetable, fruit, and experimental flower gardens at the William T. Kemper Center for Home Gardening. Walt is also an expert on azaleas and rhododendrons and planted the azalea displays near the Ridgway Center.

Tried and True

Plants of Merit

Are you looking for plants that are low maintenance, resist diseases and pests, and tolerate the demands of the local climate? Old standbys, such as impatiens, daylilies and yews, are easy to find. For some fresh ideas, come to the Kemper Center and look for the attractive green and yellow Plants of Merit signs in the demonstration gardens.

"These are plants that perform well in St. Louis, but are not well known to many gardeners," said Steve Cline, manager of the Kemper Center. "The Plants of Merit list includes 45 species of perennials, trees, shrubs, and annuals that we have tested for years and recommend. You can come to the Kemper Center and see what the Plants of Merit look like growing in the landscape, then get information on where you can purchase them locally. The response has been terrific — we started with 25 participating nurseries, and now we have 44!"

Pick up a colorful Plants of Merit brochure for $1.50 at the Kemper Center or the Garden Gate Shop. It includes a list of participating nurseries and the selections they carry.

Thank You!

"An Herbal Gathering" Benefits the Herb Garden at Tower Grove House

On April 12, the St. Louis Herb Society and the Ladue Garden Club held "An Herbal Gathering," a day of seminars, luncheon, and fun, with guest speaker James A. Duke, author of *The Green Pharmacy*. Proceeds will benefit renovation of the herb garden at Tower Grove House, Henry Shaw's historic country home. Our appreciation goes to all who made the event such a success.

News of Note

Ted Turner To Receive World Ecology Award

THE INTERNATIONAL CENTER FOR TROPICAL ECOLOGY (ICTE) will present its World Ecology Award to Ted Turner during a gala dinner at the Garden on June 8. Turner will be honored for his commitment to preserving the environment and his efforts to raise public awareness of threats to plant and animal species.

Turner, *TIME* Magazine's Man of the Year in 1991, chairs the United Nations Foundation, which he founded in 1997 and which supports programs that provide direct benefit to children and the environment. He is involved in numerous environmental organizations and is president of the Turner Foundation, which supports programs on population and the environment.

Previous recipients of the World Ecology Award include Jacques Cousteau, President José María Figueres of Costa Rica, John Denver, Dr. Paul Ehrlich, Dr. Richard Leakey, and Dr. Jane Goodall.

The ICTE was established ten years ago as a collaboration between the University of Missouri-St. Louis and the Missouri Botanical Garden. It provides training for over 100 graduate students from tropical countries around the world and promotes research, education, and the conservation and sustainable use of tropical ecosystems.

For information and dinner reservations, please call (314) 516-6203.

TIM PARKER

PBS Nova Comes to the Garden

"Building Big," a new Nova series from PBS, came to the Garden in March to film the Climatron conservatory. David Macaulay, bestselling author and designer of The Way Things Work, is host for the new series. Macaulay is shown here being filmed in the Climatron, which will be featured in a segment on the history of domes in architecture. Watch your television listings for the air date, scheduled for Fall 2000.

TIM PARKER

Student winners at the reception in Monsanto Hall. At left: Jean Crowder, representing Tower Grove House Auxiliary; Jonathan Kleinbard, deputy director of the Garden; Susan Bell, senior community relations supervisor, AmerenUE; and Yvonne Days, supervisor/visual arts, St. Louis Public Schools.

Art Contest Winners Honored

"A Future with Hope"

STUDENT WINNERS of the Millennium Art Contest, "A Future with Hope," were honored March 16 at a ceremony and reception for the opening of their exhibition at the Garden. Seventy-three entries were submitted by students in public and private schools from St. Louis, Ste. Genevieve, and Washington, Missouri. Judges were Brent Benjamin, director of The Saint Louis Art Museum, Robert Powell, owner of the Portfolio Gallery & Education Centers, and Stephanie Barken, creative director for Mary Engelbreit Studios. The art contest and exhibition were presented by Tower Grove House Auxiliary. Winners in categories for watercolor, oil, and pen and ink received $100, $50, and $25 savings bonds. The exhibition was sponsored by AmerenUE.

Calendar of Events

May & June

May 12 Friday

Native Plant Auction

6:30 p.m., preview and reception. 7:30 p.m., "Take a Closer Look, Grasshopper," slide presentation by biologist Dave Tylka. 8:30 p.m., Silent Auction begins. Come to the Ridgway Center for a chance to bid on some outstanding native plants for your garden, including rare and hard-to-find species, new varieties, outstanding specimens, and more. (Please note: None of the auction plants will be offered at the Spring Wildflower Sale on May 13.) Dave Tylka is the St. Louis urban biologist for the Missouri Department of Conservation, a professor of biology at St. Louis Community College at Meramec, and a noted nature writer and photographer. Free.

May 13 Saturday

Spring Wildflower Sale at the Arboretum

9 a.m. to 4 p.m., Shaw Arboretum, Gray Summit. The widest selection of native plants available in the St. Louis area will be offered by several local nurseries. Hundreds of showy wildflowers, ferns, trees, and shrubs of the prairie, wetland, woodland, and savanna, for use in home landscaping and for attracting birds, butterflies and other wildlife. All plants are nursery propagated and all proceeds benefit the Arboretum's Whitmire Wildflower Garden. Free admission and free parking. For more information, call (636) 451-3512 (toll free from St. Louis).

The rare Ozark wake robin, Trillium pusilum *var.* ozarkanum.

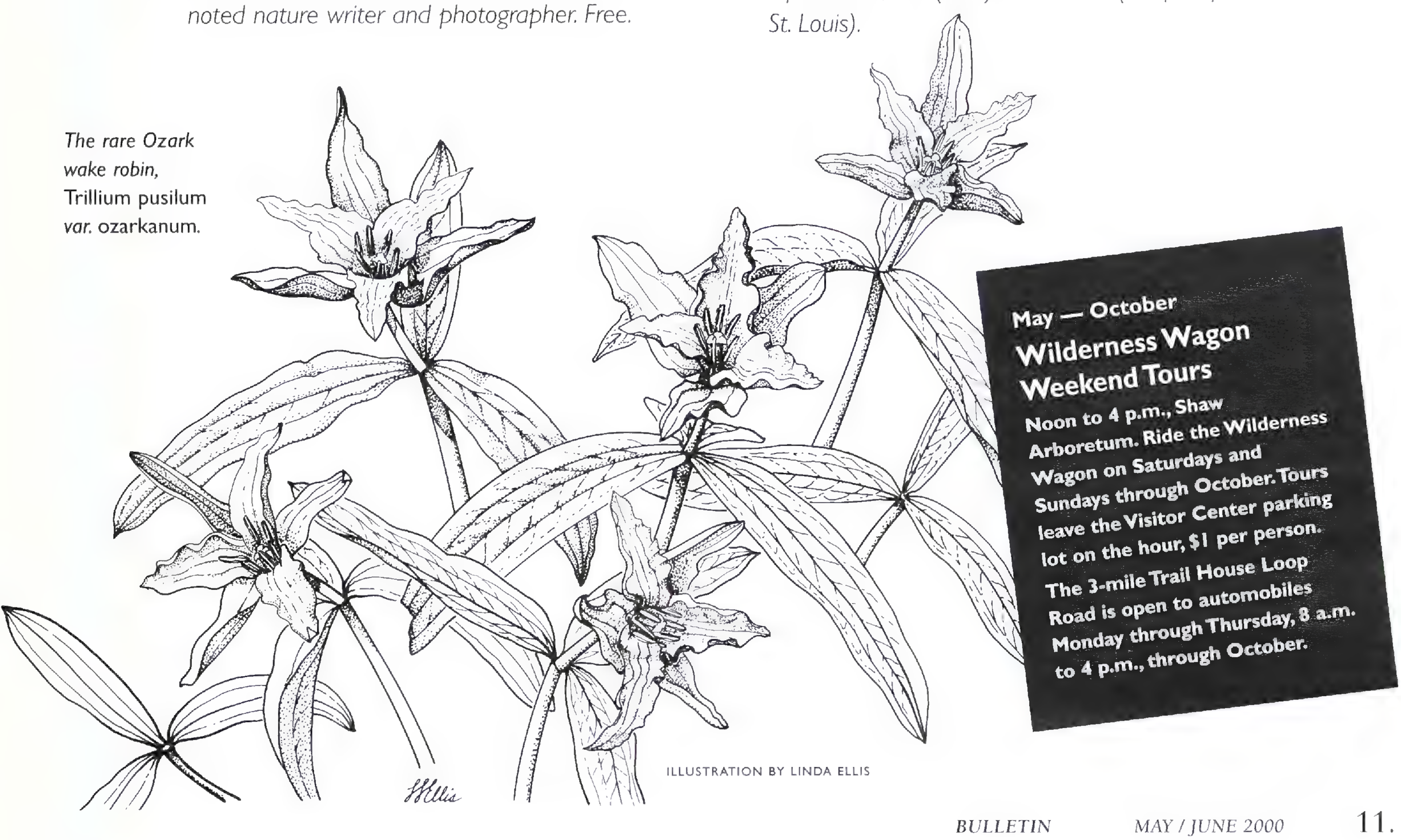


ILLUSTRATION BY LINDA ELLIS

May — October

Wilderness Wagon Weekend Tours

Noon to 4 p.m., Shaw Arboretum. Ride the Wilderness Wagon on Saturdays and Sundays through October. Tours leave the Visitor Center parking lot on the hour, $1 per person. The 3-mile Trail House Loop Road is open to automobiles Monday through Thursday, 8 a.m. to 4 p.m., through October.

May & June Events

Celebrate spring at the William T. Kemper Center for Home Gardening, with family entertainment and ideas for your home garden. Each weekend, enjoy the Kids' Treasure Hunt for prizes, the model train in the Children's Garden, and Volunteer Interpreter Carts on the grounds. Register for attendance prizes: a Tanaka lawn and garden trimmer from Outdoor Equipment, and a wheelbarrow filled with gardening supplies from Gerber Gardens and Florist.

KMOV's Chief Meteorologist Kent Ehrhardt is the Official Meteorologist for GardenExpo and KMOV Channel 4 is the Official Source for Weather.

May 6 & 7 Saturday & Sunday

The Merry Month of May

9 a.m. to 5 p.m. daily. Highlights: Bonsai Society Show & Sale; "Wild Whimsical Wonders," outdoor folk art at Kemper Center; Wild Birds for the 21st Century display; Leslie Faust art exhibit. Greenhouse tours at 10 a.m., 12 noon, 2 p.m. (tours are limited to 20 participants each).

May 13 & 14 Saturday & Sunday

Mother's Daze

9 a.m. to 5 p.m. daily. Highlights: Mother's Day Buffet in Garden Café; Dahlia Society, Rose Society, and Horticultural Society shows and sales; St. Louis Audubon Society Migratory Bird Week Exhibit.

May 6 & 7 Saturday & Sunday

Bonsai Society Show & Sale

9 a.m. to 5 p.m., Orthwein Floral Hall. Free with Garden admission or membership.

May 7 Sunday

SHAW 200TH ANNIVERSARY EVENT

"From the Garden, Live"® Concert Series

Noon, Shoenberg Auditorium. Performance by St. Louis Chamber Winds is broadcast live on 99.1 FM, sponsored by KFUO-FM and the Garden. Call (314) 725-0099 for ticket information. Concert admission is free.

May 8 – July 28

Cacti and Succulents

9 a.m. to 5 p.m. daily, Grigg Lobby. Spectacular large format cibachrome prints capture the closeup texture, beauty and detail of desert plants, many taken during their fleeting inflorescence. By Steve Feiner of the Henry Shaw Cactus Society. Free with Garden admission or membership.

May 9 Tuesday

SHAW 200TH ANNIVERSARY EVENT

Chamber Music Concert

7 p.m., Piper Palm House, Tower Grove Park. Featuring members of the St. Louis Symphony. Seating is limited; for reservations call (314) 286-4432. Free.

May 13 & 14 Saturday & Sunday

Dahlia Society Sale

9 a.m. to 5 p.m. daily, Beaumont Room. Presented by the Dahlia Society of Greater St. Louis. Free with Garden admission or membership.

Rose Society Sale

9 a.m. to 5 p.m. daily, Monsanto Hall. Miniature rose sale by the Rose Society of Greater St. Louis. Free with Garden admission or membership.

St. Louis Horticultural Society Show & Sale

9:30 a.m. to 5 p.m. Saturday, 9 a.m. to 5 p.m. Sunday, Orthwein Floral Hall. Free with Garden admission or membership.

May 18 Thursday

"Building Your Next Pond"

7 p.m., Shoenberg Auditorium. A lecture by noted author Helen Nash, editor of *Pond and Garden* Magazine. Booksigning before and after the lecture, all titles available in the Garden Gate Shop. Sponsored by the St. Louis Water Gardening Society. Free.

May 20 Saturday

Garden StoryTime

11 a.m., Garden Gate Shop Book Department. Volunteer naturalist Shirley Ritsema from the World Bird Sanctuary tells stories about owls, parrots and turkey vultures, then lets you meet them live. For children ages 4 to 10. Parents and guardians are welcome to attend, and children under 4 must be accompanied by an adult. All children's books are an additional 10% off for those attending StoryTime. Admission is free, no reservations.

May 25 – August 18

"Plant Studies from the Tallgrass Prairie"

9 a.m. to 5 p.m. daily, Monsanto Hall. Superb paintings of grasses and wildflowers of the North American prairie by George Olson, one of the nation's leading botanical artists and a former artist-in-residence at the Missouri Botanical Garden. Free with Garden admission or membership.

May & June Events

May 20 & 21 Saturday & Sunday

Chinese Culture Days

10 a.m. to 5 p.m. daily, grounds. Celebrate the Year of the Dragon with the arrival of a magnificent 70-foot dragon from Nanjing, China, which will dance at the opening ceremony and at several times during the weekend. See exhibits of contemporary Chinese art and traditional percussion instruments. Enjoy a traditional Chinese wedding ceremony, folk fashions and dancing, musical performances, Chinese food, children's games, painting and calligraphy demonstrations. Pi-Pa playing, Tai chi demonstrations, tea ceremonies, and tours of the Grigg Nanjing Friendship Garden. Free with Garden admission or membership.

May 27 & 28
Saturday & Sunday

Rose Society Show

12:30 to 5 p.m. Saturday, 9 a.m. to 4:30 p.m. Sunday, Orthwein Floral Hall. The annual show by the Rose Society of Greater St. Louis. Free with Garden admission or membership.

June 3 Saturday

Carnivorous Plant Society Show and Sale

10 a.m. to 4 p.m., Beaumont Room. Plants for sale include large Venus flytraps, American and tropical pitcher plants, sundews, bladderworts and butterworts. Detailed care sheets provided for all species sold. Free with Garden admission or membership.

June 3 Saturday

Iris Society Show

Noon to 6 p.m, Orthwein Floral Hall. Presented by the Greater St. Louis Iris Society. Free with Garden admission or membership.

June 10 & 11
Saturday & Sunday

Federated Garden Clubs Show

Noon to 5 p.m. Saturday, 9 a.m. to 5 p.m. Sunday, Orthwein Floral Hall. Presented by the Federated Garden Clubs of Missouri East Central District. Free with Garden admission or membership.

June 17 Saturday

SHAW 200TH ANNIVERSARY

Garden StoryTime

11 a.m., Garden Gate Shop Book Department. Henry Shaw in person will tell stories of his past, plus fables and fairy tales popular when he was a boy in the early 1800s. See May 20 for details.

June 17 & 18
Saturday & Sunday

Lily Society Show

Noon to 5 p.m. Saturday, 9 a.m. to 5 p.m. Sunday, Orthwein Floral Hall. Presented by the Mid-America Regional Lily Society (MARLS). Free with Garden admission or membership.

June 18 Sunday

Prairie Day at the Garden

10 a.m. to 3 p.m., grounds. Celebrate Missouri's natural heritage with a guided tour of the prairie garden at the Kemper Center for Home Gardening. Sign up for Lek Trek 2000, sponsored by the Missouri Prairie Foundation, and join "Boomer," the Lek Trek mascot, in the prairie chicken dance at 2 p.m. See Live reptiles and amphibians from the St. Louis Herpetological Society and live prairie insects and children's activities from the Saint Louis Zoo. Demonstrations and displays by the St. Louis Archeological Research Center, Missouri Native Plant Society, and Shaw Arboretum. Free with Garden admission or membership.

June 25 Sunday

Daylily Club Show and Sale

Show: Noon to 5 p.m., Orthwein Floral Hall. Sale: 9 a.m. to 5 p.m., Beaumont Room. Presented by the West County Daylily Club. Free with Garden admission or membership.

Save the Date!

July 12 Wednesday

Strassenfest Garden Dedication

Ceremony 10:30 a.m., music and entertainment to follow. Plan now to join in the festivities celebrating the dedication of the new Strassenfest German Garden at the south end of the John S. Lehmann Building. Watch for more details in the July issue!

May 29 Monday

Summer Hours Begin

9 a.m. to 8 p.m., Memorial Day through Labor Day. Enjoy a summer evening stroll in the Garden.

Whitaker **jazz** festival **2000**

TIM PARKER

Johnnie Johnson at the 1999 Whitaker Jazz Festival.

The Whitaker Jazz Festival is made possible by the generosity of the Whitaker Foundation, which supports the arts in St. Louis to promote our common heritage while celebrating our diversity and encouraging the vitality of our community.

June 7 – July 12 Wednesdays

7:30 p.m., Cohen Amphitheater. Bring a picnic and spend an evening under the stars. Lawn seating, cash bar. No alcoholic beverages or glass containers are permitted on Garden grounds. Box suppers are available by advance reservation from the Garden Café: call (314) 577-0200 to order.

For concert information, listen to WSIE 88.7 FM.
Festival hotline: (314) 577-9400 or 1-800-642-8842.
Sponsored by the Whitaker Foundation.

June 7
Johnnie Johnson
Shaw 200th Birthday Bash

June 14
Peter Martin Quartet
Contemporary Jazz

June 21
Acoustic Internote
Latin and Gypsy Jazz

June 28
Vargas Swing
Swing Band Sensation

July 5
Jeanne Trevor
Tribute to a St. Louis Gem

July 12
Ahmad Alaadeen
The Kansas City Jazz Scene

TIM PARKER

May 25 Thursday
Members' Day

Rose Evening

5:30 to 8:30 p.m.

Join Henry Shaw himself for a special Thursday evening salute to the start of summer! Entertainment by River City Ramblers, cash bar. Take a special tour of Tower Grove House with an exhibit of rose prints from the Garden archives. Visit with Horticulture staff and other rose experts. Receive a long-stemmed rose and enter for attendance drawings, including a rose arrangement from Tom Carr Florist. In the Garden Gate Shop, meet author Peter Bernhardt and receive an extra 5% discount on all rose books and other rose accessories. A buffet supper from the Garden Café is available by advance reservation, $22 per person. Call (314) 577-9500 for reservations by May 22.

June 2 Friday Members' Day

Big Band Concert

5:30 to 9 p.m. Bring a picnic supper, blankets or lawn chairs and enjoy the lively sounds of the St. Louis Brass Band. Concert begins on Spoehrer Plaza at 7:30 p.m. Limited concert seating is available on a first-come, first-served basis. Cash bar. In the Garden Gate Shop, members receive an extra 5% discount on selected CDs, cassettes, and windchimes. Special thanks to The Travel Center for their support of the evening. Free, for Garden members and their guests.

Members

Past Presidents of the Members' Board

Mary Longrais

MARISA LONGRAIS HUMAN

WHEN SHE joined the Members' Board in 1980, Mary Longrais expected to volunteer a few hours a week. It quickly grew into "20 years of inspiring memories and friendships," she said.

Mary served as president of the Board from 1992 through 1993, a time of remarkable growth at the Garden. During her presidency, Mary welcomed the Garden's 30,000th member and was instrumental in establishing the beloved annual holiday wreath display in the Ridgway Center. The Members' Board also began organizing their sponsorship of the Entry Court Garden at the Kemper Center for Home Gardening as part of the Partnership Campaign.

During her 20 years on the Board, Mary has co-chaired several special events, including the Children's Halloween Party, Henry Shaw's Birthday, the Mother's Day Luncheon, Members' Days, the Climatron® Plant Auction, children's art events, and the Tour de France gala benefit party. Until 1998, she was a member of the Tower Grove House Historical Committee.

"I loved learning about the Garden over the years," she said, "including the research program and how we have grown in our service to the community. Peter Raven is an inspiration, and I am proud that the Garden is admired around the world."

Mary also serves on the Board of Trustees at Saint Louis University and as a docent at the St. Louis Art Museum. She continues to volunteer at the Garden, and says, "It is heart-warming for me to see so many people coming to the Garden to enjoy its beauty and tranquility. I love working with the Members' Board because I believe so much in what the Garden does."

Make Your Reservation Today!

May 12 Friday

Sponsored by Dillard's

Mother's Day Luncheon – "A Victorian Garden Party"

Bring your mother and special friends to a lovely spring afternoon at the Garden. Visit the Kresko Victorian Garden and Tower Grove House, where tours are free to members. Enjoy the Mother's Day Luncheon and Fashion Show sponsored by Dillard's, with Cindy Preszler of Channel 5 Weather, a special appearance by Henry Shaw, and "Fashions from the Past" with a salute to the 19th century. Attendance drawing, cash bar, $50 per person. For reservations please call (314) 577-9500.

Young Friends Present "A Bloomin' Happy Hour!"

May 19 Friday, 5:30 to 8:30 p.m.

Stop by the reflecting pools by the Climatron and join the Young Friends of the Garden and Keystone for beer, wine, soda, and light snacks. Music by Dangerous Kitchen. Sponsored by Anheuser-Busch, Hereford Printing Resources, and FM 101 The River. $15 in advance, $20 at the door. Call (314) 577-9500 for reservations.

A Great Gift for Mom, Dad, or Graduation

Give a Garden Membership – The Gift that Lasts All Year

Use it every day for a quiet walk, family entertainment, get practical ideas for your lawn and garden, or attend wonderful events throughout the year. Senior membership $50, regular membership $55. Receive a free gift with each membership. For information or to order by phone, please call (314) 577-5118.

You Can Win!

Celebrate the 200th Birthday of Henry Shaw!

This year when you purchase a new Garden membership or renew an existing one, you will receive a beautiful tea tin decorated with scenes of the Garden and filled with Stewarts Private Blend Tea. Some tins will contain surprise coupons from Borders Books & Music, Café Mira, Hanks Cheesecakes, the Garden Gate Shop, Remy's Kitchen & Wine Bar, Stages St. Louis Theater Co., Wild Birds Unlimited, and more.

Plus, everyone who purchases a membership this year is eligible for a drawing for two round trip air fare tickets to London to visit the Royal Botanic Gardens, Kew!

(No purchase necessary. Call (314) 577-5118 for details.)

Haven of Grace Garden

Maffit Cabbage Patch

Mayberry Garden

Lafayette Square Community Garde

Gateway Greening

Changing the Face of St. Louis

"Gateway provides a catalyst for change in the heart of St. Louis city neighborhoods."
– Peter H. Raven

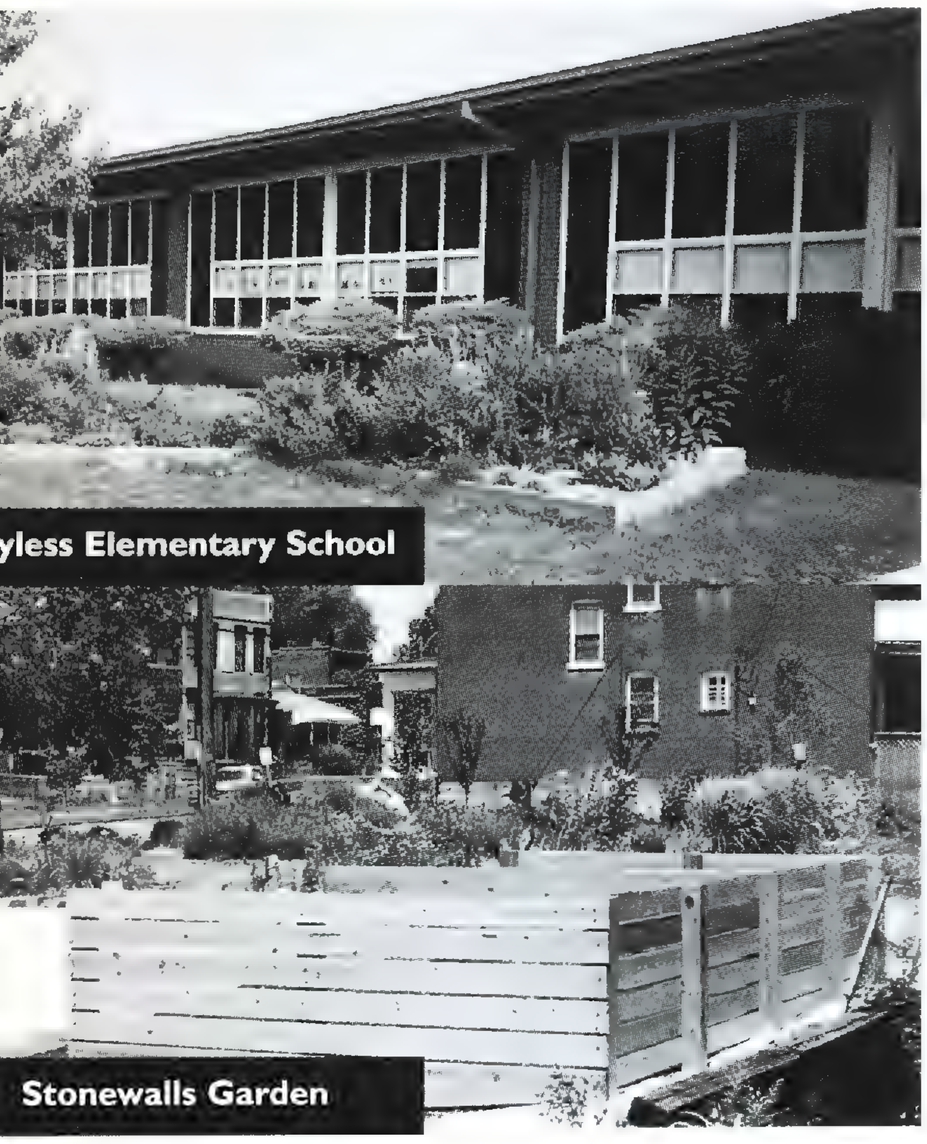
GATEWAY GREENING, INC., a community service organization, operates in alliance with the Garden and works with community groups to develop gardening projects on abandoned urban land. The Missouri Botanical Garden provides support and partnership for Gateway Greening as part of its community outreach.

"The relationship benefits both organizations," said Brenda Jones, the Garden's director of marketing and communications. Jones and Chip Tynan of the Garden's Horticulture Division serve on Gateway's Board of Directors. "Our goals of horticultural education and service to the community are so similar, it makes sense to combine our areas of expertise."

Gateway Greening works with neighborhood groups and community organizations to develop gardens and landscaping projects. The gardens reclaim vacant lots and abandoned property and turn them into gathering places that foster a sense of community cooperation. Gateway provides lumber, topsoil, mulch, seedlings, expertise, resources, and volunteer help for some 127 active gardens, which are responsible for their own maintenance.

The Garden supplies office space, accounting and business services, insurance, staff benefits, and administrative support for Gateway. Directed by Gwenne Hayes-Stewart, the staff of six is assisted by 500 volunteers and based in the E. Desmond and Mary Ann Lee Family Education Center, a facility of the Garden's Education Division. Many of the hundreds of volunteers who work with Gateway are St. Louis Master Gardeners, who are recruited by the Garden and trained through its partnership with University Outreach and Extension and Lincoln University.

Over the years of partnership with Gateway, the Garden's Horticulture Division has donated thousands of plants for neighborhood projects. Staff from the Kemper Center for Home Gardening have provided technical expertise and developed criteria for project selection. They attend Gateway events where they meet participants and answer questions. The Garden helps to promote Gateway fund raising events, including the Great Perennial Divide, the Great Garden Tour, and the "Chefs in a Garden" benefit.



Bayless Elementary School

Stonewalls Garden

Seeds of Change Garden

Seeds of Change is a non-profit community corporation that runs a youth program, a community center, and a small loans fund for home repairs. In 1999 the organization founded a community garden for ten families. With help from Gateway, they built raised beds for perennials and vegetables and have plans to expand.

Maffit Cabbage Patch

One of the oldest community gardens in St. Louis, Maffit overcame a crisis when a building separating the two halves of the garden was demolished, destroying both gardens. Rebuilding began immediately, with help from neighbors, volunteers. Garden leader Pauline Humphry is pictured in right center, front row.

Lafayette Square Community Garden

A mural was painted on the building bordering the garden last year, adding to the beauty of this established neighborhood project. Pictured are judges of Gateway's Urban Garden Contest, from left: Master Gardeners Tom Hardy (standing), Maxine Mirowitz, Jan Hermann, Ann Robison, Kitty Hoblitzelle, and Missy Ramey.

Stonewalls Garden

New compost bins were installed last year.

Chaney School

Chaney School won second place in the Post-Dispatch Great Garden Contest for Best Community Garden in 1999. They have added a sitting area and a 1300-square-foot vegetable garden. "The excitement makes all the effort worthwhile," said garden leader Bill Jordan. "The children's faces light up when they're gardening."

On May 19, the Garden will host Gateway Greening Day at the Garden, a day of events for community gardeners.

Here are just a few of the outstanding neighborhood projects Gateway Greening sponsored last year:

Haven of Grace Garden

The Haven of Grace is a residential shelter for homeless, pregnant women and their children. The small two-bed garden has a sitting area with an arbor and bench, ornamental borders and vegetables. Working in the garden helps residents acquire independent living skills and enjoy a sense of accomplishment.

Mayberry Garden

Last spring, volunteers built and planted 22 raised beds with fruits and vegetables in just one day. A fence, arbor, benches and ornamental borders of colorful annuals and perennials were installed during the summer. Under the leadership of Valery Granberry and her mother, Mrs. May (pictured), the garden has become a source of pride with many neighbors eager to participate.

Bayless Elementary School

The 350 students of the Bayless Elementary School Garden Clubs planted 200 bulbs, herbs, and flowers around the school grounds. Three students who were having problems in school were placed in charge of maintaining the gardens, and after watering, weeding, planting and harvesting, all have become committed garden leaders.

Enter the 4th Annual *Post-Dispatch* Great Garden Contest

Your garden, pot, or planter could win the grand prize in the *St. Louis Post-Dispatch* Great Garden Contest! Gardens in various categories are judged on their own merits, so small gardens can beat out big ones — and they have. Winners take home prizes of $300, $500, or up to $1,000 in gift certificates from local nurseries.

Deadline for Entries: June 8, 2000

Winners will be announced in the *Post-Dispatch* Lifestyle section and on the KTRS 550 Garden Show at 7 a.m. on June 24, 2000.

Photos of the winners will be on display at the William T. Kemper Center for Home Gardening during July. For some great gardening ideas, listen to Ken Miller at 7 a.m. Saturdays on 550 KTRS FM Radio and watch Janis and Dave Murray's Home Garden Show on FOX 2 News, weekday mornings between 7 and 8 a.m.

To enter, you must send six non-returnable photos of your garden along with a completed entry form postmarked by June 8, 2000. You can pick up a brochure with contest rules and entry forms at the Garden Ticket Counter, or go to http://promos.postnet.com/greatgarden, or send a self-addressed, stamped envelope to: *St. Louis Post-Dispatch*, Attn: Great Garden Contest Rules, 900 N. Tucker Blvd., St. Louis, MO 63101-1099.

Sponsored by *St. Louis Post-Dispatch*, postnet.com, The Bug Store, 550 KTRS FM Radio, FOX 2 News, Gateway Greening, Inc., and the Missouri Botanical Garden.

Take the Great Garden Contest Tour – Saturday, June 3, 2000

See 14 gardens of past winners of the Great Garden Contest and get inspiration for your own backyard! Chip Tynan, June Hutson, Glenn Kopp, and Katie Belisle-Iffrig from the Kemper Center for Home Gardening will join Ken Miller, Clarissa Start, Janis Murray, Cindy Gilberg, Arlie Tempel, Sue Reed, garden club members, and volunteers at tour locations to greet visitors and answer questions.

Tickets are available beginning May 1 at Gateway Greening, the Garden Ticket Counter, The Bug Store, Hartke Nursery, and Seasons Gardening in St. Louis. $20 per person, $35 for two. Cost to visit one garden is $4. Proceeds benefit Gateway Greening and their many community garden projects. To order tickets by phone or for additional information, call (314) 577-9484.

Hunter Lovins, keynote speaker, and Peter H. Raven at the Earth Day Summit. Lovins also spoke at the Garden on "Natural Capitalism: Creating the Next Industrial Revolution."

Earth Day Summit

"Business Opportunities for the 21st Century"

TO CELEBRATE the 30th anniversary of Earth Day, the Garden joined with St. Louis business and environmental leaders on April 14 to present the Earth Day Environmental Summit, which was held at the Garden's Monsanto Center. L. Hunter Lovins, noted author and authority on energy, was the keynote speaker. Lovins discussed concepts of "natural capitalism," a new business model that enables companies to improve profits and competitiveness while reducing wasteful use of natural resources.

The Earth Day Summit was presented by the Missouri Coalition for the Environment, the St. Louis Regional Chamber and Growth Association, the East-West Gateway Coordinating Council, and the Missouri Botanical Garden. Peter H. Raven served as honorary chair for the St. Louis Earth Day 2000 celebration.

New Corporate Partners

Corporate Partners provide outstanding support for the Garden and receive wide recognition for their service to the greater St. Louis community. Corporate members are invited to many special events at the Garden throughout the year. We are proud to announce three new members of the Corporate Partners Program. For more information, please call Rachel Hartmann, corporate/foundation officer, at (314) 577-9513.

UNDERWRITER

Laclede Gas Company

Union Planters Bank

SUPPORTER

H. B. D. Contracting, Inc.

1999 Annual Report

The 1999 Annual Report is available on request. You may pick up a copy at the Membership Services and Information Desk, the Shoenberg Administration Building, or call the Development Office at (314) 577-5120.

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Create a Legacy

By leaving a bequest to the Garden, you create a legacy that will benefit others for generations to come. If you have already included the Garden in your estate plans, we hope that you will share this information with us. We would like to express our gratitude and welcome you into the Heritage Society. Of course, your wishes for anonymity are respected. Please call Judi Schraer, Planned Giving Officer, (314) 577-9455 for further information and a complimentary brochure.

Elegant, rare and unusual accents for outdoor living this summer.

PHOTOGRAPHS BY TRENT FOLTZ

Left: Magnificent handcrafted baskets from Indonesia combine natural fibers, rattan, leather, and wood. Galvanized cans in a matching tray are just one of a wonderful collection of containers for colorful plants

Below: Handmade bird sculptures from Zimbabwe are crafted from scrap metal with native serpentine and rapoka stone. The iron and glass fish lantern is one of many whimsical accents for outdoor lighting

The Garden Gate Shop is now open 9 a.m. to 5:30 p.m. for your shopping convenience.

"The Shop at the Garden"

Handcrafted sculpture, containers, lanterns and baskets are among the very special gifts that you will find at the Garden Gate Shop. Experience personalized shopping, custom gift selections, and exclusive items from all over the world.

Lots of Gifts under $25!

All proceeds from the Garden Gate Shop benefit the Missouri Botanical Garden

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Now Open – Newly Renovated

Lunch and Light Refreshments
9 a.m. to 5 p.m. daily
Wednesdays & Saturdays:
Open at 7 a.m.

Missouri Botanical Garden

Inside This Issue

2.
Historic Tours

Visit Henry Shaw's St. Louis with special tours of the Garden and Tower Grove Park.

5.
Arboretum News

A new glade overlook and a new cabin at the overnight education center.

6.
Board of Trustees

Four new trustees join the Board.

7.
Gifts & Grants

Friends of the Garden are generous in their support for education.

8.
Home Gardening

Espalier fruit trees are beautiful and save space in the garden.

11.
Calendar of Events

Native Plant Auction and Sale, GardenExpo continues, Chinese Culture Days, Rose Evening, and more.

15.
News of the Members

Give Mom or Dad a gift membership!

16.
Gateway Greening

Neighborhood greening projects are changing the face of St. Louis.

18.
Tributes

Honoring family and friends.

Printed on recycled paper using soy-based inks.

Whitaker **jazz** festival **2000**

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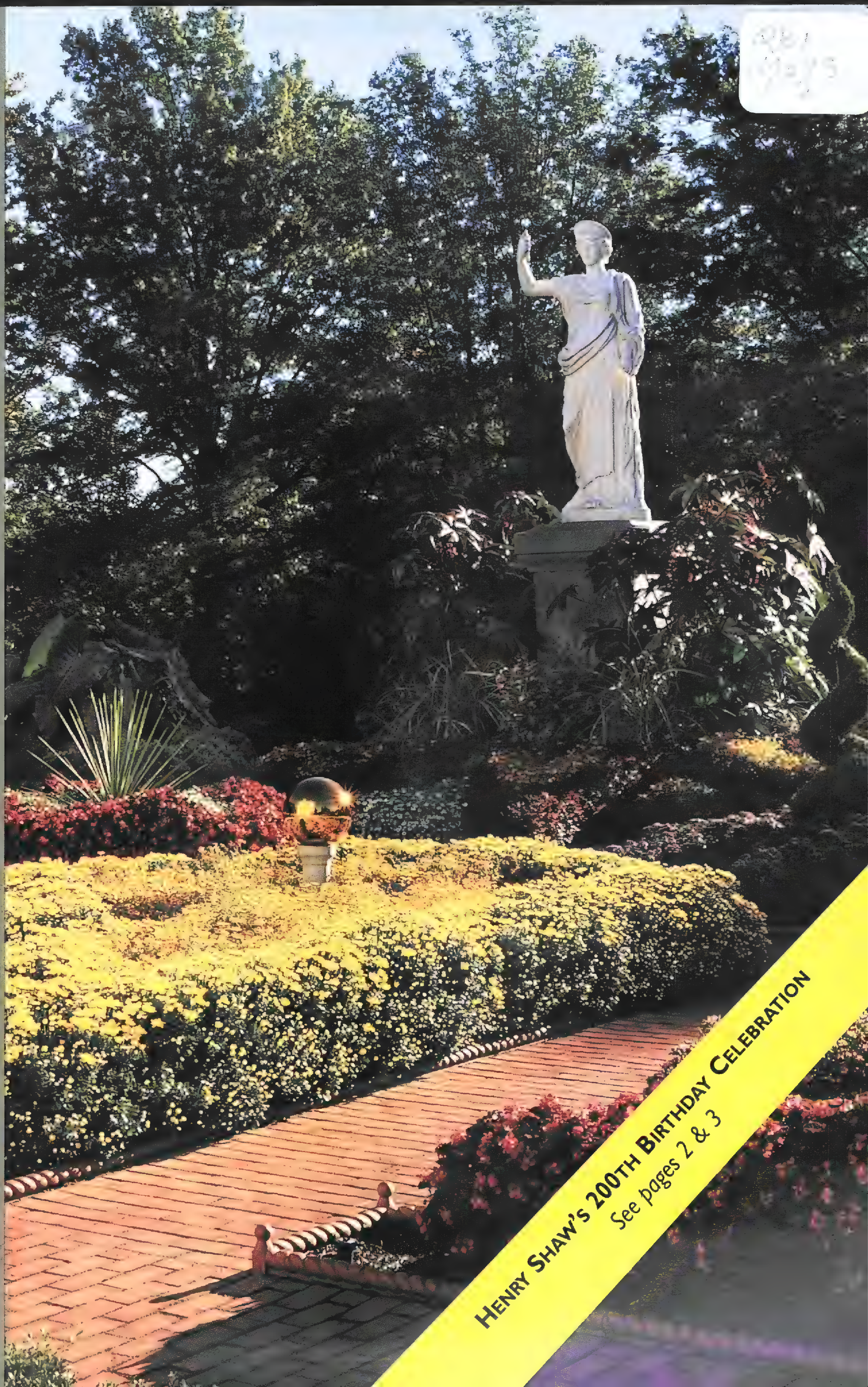
BULLETIN

Rec'd
May 5

Missouri Botanical Garden

JULY / AUGUST
2000



Henry Shaw's 200th Birthday Celebration

See pages 2 & 3

Volume LXXXVIII
Number Four

Happy Birthday, Henry!

Saturday, July 22 – Monday, July 24

Free Admission & Fun for All!

Bring all your family and friends to a glorious birthday bash!
With free admission for all three days, you can bring as many guests as you like to enjoy the beauty of the Garden.

Delight in an old-fashioned good time, with free refreshments, entertainment, and a visit with Henry Shaw himself. Enjoy a band concert and free horse drawn carriage rides in beautiful Tower Grove Park.

Come one, come all!

Sponsored by
The May Department Stores Company
and its Famous-Barr and Lord & Taylor Divisions

With Special Thanks to
AmerenUE
Coca-Cola
Don Brown Chevrolet
Schnuck Markets, Inc.
TIAA-CREF

200th Birthday Celebration

COMMON GROUND
Henry Shaw
1800–2000
COMMON GROUND
COMMON GROUND
COMMON GROUND

MISSOURI BOTANICAL GARDEN
MISSOURI HISTORICAL SOCIETY
FRIENDS OF TOWER GROVE PARK

Henry Shaw's 200th Birthday Celebration

Saturday, July 22, 2000 – 10 a.m. to 3 p.m.

In Tower Grove Park:

• **Free Horse Drawn Carriage Rides** – 1:00 to 3:00 p.m.

At the Garden:

• Victorian Organ Grinder

• Stilt Walker • Croquet on the Lawn

• Refreshments Tent at Tower Grove House – Lemonade, Waters, and Cookies

• **Free Tours of Tower Grove House** – 10 a.m. to 3 p.m.

• Educational Activities for Children

• Free Walking Tours of the Victorian Area – Leave from Ticket Counter at 10 a.m., noon, and 2 p.m.

Sunday, July 23, 2000 – Noon to 3 p.m.

In Tower Grove Park:

• **Free Horse Drawn Carriage Rides** – 1:00 to 3:00 p.m.

At the Garden:

• All-Shaw Community Choir

• Victorian Organ Grinder

• Croquet on the Lawn

• Refreshments Tent at Tower Grove House – Lemonade, Waters, and Cookies

• Educational Activities for Children

• Free Tours of Tower Grove House – Noon to 3:00 p.m.

• Free Walking Tours of the Victorian Area – Leave from Ticket Counter at 1 p.m. and 2 p.m.

Monday, July 24, 2000 – Henry Shaw's Birthday
10 a.m. to 3 p.m.

In Tower Grove Park:

• Free Music Stand Concert with Harry Swanger, Conductor – 7:30 p.m.

At the Garden:

• Ice Cream Social at Tower Grove House – Ice Cream, Birthday Cake, Lemonade, Waters, Iced Tea

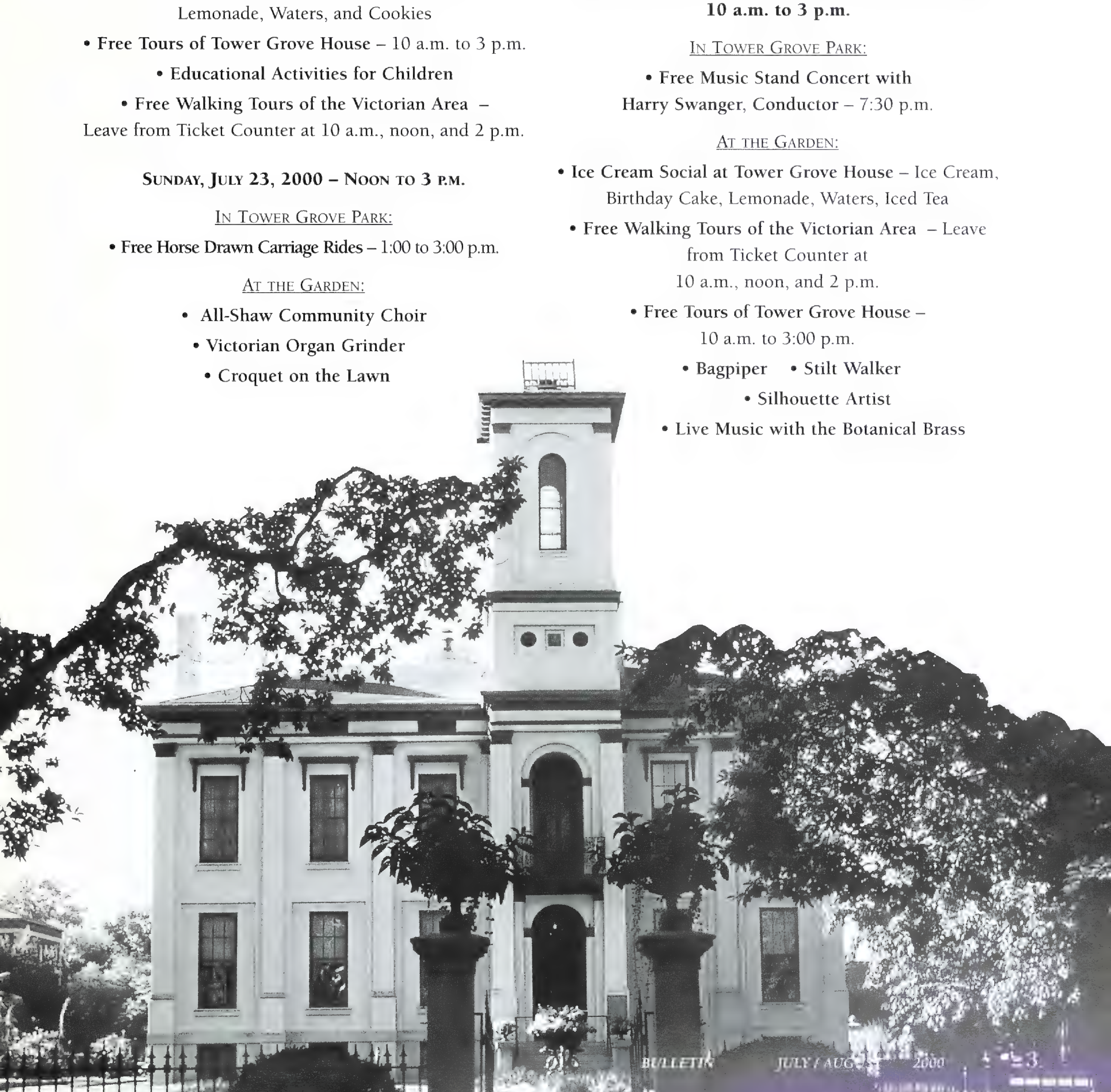
• Free Walking Tours of the Victorian Area – Leave from Ticket Counter at 10 a.m., noon, and 2 p.m.

• Free Tours of Tower Grove House – 10 a.m. to 3:00 p.m.

• Bagpiper • Stilt Walker

• Silhouette Artist

• Live Music with the Botanical Brass

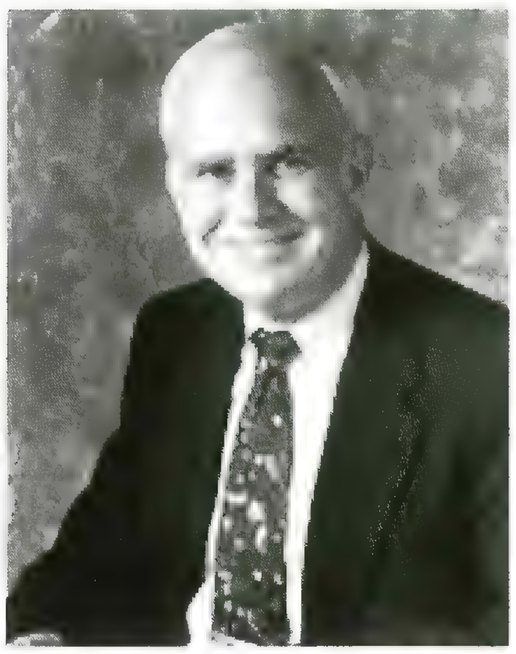


Comment

Missouri Botanical Garden Mission:
To discover and share knowledge about plants and their environment, in order to preserve and enrich life.

GENEROSITY OF SPIRIT guided Henry Shaw's life and legacy, and it is reflected today in our preparations for his 200th birthday on July 24. Nothing gave Mr. Shaw greater pleasure than welcoming the people of St. Louis to enjoy his Garden and Tower Grove Park. Our gala three-day weekend celebration will welcome every visitor with free admission, thanks to the generosity of the May Department Stores Company and its Famous-Barr and Lord & Taylor divisions. We extend our deep appreciation to the May Company for making this exciting event possible.

The same desire to benefit humankind drives the Garden's commitment to preserving the environment. In this issue, we focus on two ways the Garden fosters environmental responsibility: our horticulturists are successfully using insect controls ro reduce the amount of chemicals in the environment, and our Department of Applied Research is establishing benchmarks for identification of plants used in herbal remedies. Their work supports efforts to find sustainable uses for plants, which ultimately encourages conservation of biological diversity.



As part of our commitment to promoting conservation and sustainability, the Garden has joined the Missouri Environmental Fund. The Fund is a federation of non-profit environmental organizations that increases support for its members and builds awareness of their programs through workplace fund raising campaigns. Member organizations all work in Missouri to improve the environment and protect the many resources that make our state a beautiful, healthy place to live and work. The Fund's member organizations share our goals of education, environmental responsibility, and service to the community, and we are proud to be part of this outstanding organization.

— Peter H. Raven, director

Mailing Address:
Missouri Botanical Garden
Post Office Box 299
St. Louis, Missouri 63166-0299
(314) 577-5100

Visit the Garden Web site:
www.mobot.org

Garden Hours
9 a.m. to 5 p.m. every day except Christmas; 9 a.m. to 8 p.m. Memorial Day through Labor Day. Grounds open 7 a.m. Wed. & Sat.

Shaw Arboretum:
(636) 451-3512 (toll free from St. Louis)

24-Hour Information:
GardenLine – (314) 577-9400
Or call 1-800-642-8842.

24-Hour Gardening Tips:
HortLine – (314) 776-5522
Or see www.mobot.org.

Employment/ Volunteer Hotline: (314) 577-9401
Or see www.mobot.org.

Horticulture Answer Service:
(314) 577-5143
9:00 a.m. to noon, Mon. – Fri.

Recycling/Compost Hotline:
(314) 577-9555
9:00 a.m. to noon, Mon. – Fri.

On the Cover
The Kresko Family Victorian Garden sets the stage for Henry Shaw's Birthday celebration.

Photo by Jack Jennings

Editor
Susan Wooleyhan Caine

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The BULLETIN is sent to every member of the Garden as a benefit of membership. For a contribution of as little as $55 per year, members also are entitled to: free admission to the Garden, Shaw Arboretum, and Tower Grove House; invitations to special events and receptions; announcements of all lectures and classes; discounts in the Garden Gate Shop and course fees; and the opportunity for travel, domestic and abroad, with other members. For information, call (314) 577-5118.

Postmaster: Please send address changes to: Bulletin, Missouri Botanical Garden, P.O. Box 299, St. Louis, MO 63166-0299.

Volunteers

Celebrating Anniversaries

ON April 19, 2000, the Garden honored its volunteers who are celebrating service anniversaries this year. Expressing the gratitude and appreciation of the entire Garden community, Peter Raven said, "This year we are celebrating Henry Shaw's 200th birthday. I cannot help but believe that our founder would be very pleased to know that so many have worked so tirelessly to make the most of his endowment. Volunteers such as you would amaze Mr. Shaw, I am sure." Dr. Raven also paid tribute to Melanie Fathman, a Garden volunteer for thirty years, who was unable to attend.

TIM PARKER

Ten Years

Pictured above, back row, from far left: Rhonda Porche-Sorbet, Rosalie Heuing, Pat Walker, Janet Buehrig, Anna Murphy, Jerry Overmann, Lois Raley, Peter Raven, Pat Becklean, Nancy Berthold, Ann Spradling, Gene Spradling, Carol Berry, Marilyn Raphael, Fern Truscheit, Carol Schulte, Marian Brown, Mary Ann Wayne, Vivian Wilson, Betty Smith.

Front row, from left: Shirley Anton, Bill Schuler, Catherine Mayo, Alberta Kramer, Marilyn Heneghan, Bette DeBernardi, Jeanne Klebusch, Ruth Sherwin, Berta Dulle, Christine Merlotti, Jo Johansen.

Not pictured: Dorothy Adams, Dolores Brislane, Dennis Chambers, Monica Clapper, Jacqueline Crider, Jane Dare, Joan Goltzman, Jim Gossom, Katie Harper, Pat Holt, Patrick Kegin, Loretta Kelly, Dottie Kinyon, Celeste Ledwidge, Jean Leonhardt, Ginger Mild, Ray Miller, Wilma Murphy, Sue Palmer, Cheryl Perlstein, Olive Rheinnecker, Ellie Sanford, Jane Thomas.

Twenty Years

Pictured at right with Peter Raven, left to right: Joyce Knobbe, Mark Dienstbach, Ken Lindenmann, Toni Ansboro, and Charmaine Hutchings. Not pictured: Sue Rapp and George Tribble.

CHEDD-ANGIER PRODUCTION CO.

Alan Alda Visits the Garden for *Scientific American Frontiers*

The national PBS series *Scientific American Frontiers* came to the Garden in May to film a program on endangered species and habitat restoration. Alan Alda, host for the series, interviewed Peter Raven about the issues and the case for preserving the world's biodiversity. The series is in its 10th anniversary season on PBS, where the program featuring the Garden is expected to air sometime this fall. Watch your local listing for times and dates. Shown here, Alan Alda and Peter Raven visit the Climatron® rain forest.

Neighborhood

MARY BUTKUS

The Garden maintains decorative plantings around the fountain at Kingshighway and Vandeventer.

TIM PARKER

In the new pocket park on Maury Avenue are (standing, from left): Susan Anderson, executive director, Southwest Garden Neighborhood Association; Shirley Dommer, supervisor, MBG horticulture division; Don Clark, manager of the Timberland Specialty Store, St. Louis Galleria. Kneeling, from left: Jason Kruegel and Jeff Shelby, MBG horticulture staff.

MARY BUTKUS

This vacant lot on Maury Avenue was transformed into a green oasis last year.

MARY BUTKUS

The Garden provides landscaping for the traffic circle at Vandeventer and Shaw Boulevard.

Looking Good!

Teaming up to create attractive streets and green spaces.

NEIGHBORHOODS AND STREETS surrounding the Garden are spruced up with attractive green areas, thanks to hard work by residents, volunteers, and the horticulture staff. The Garden works behind the scenes with residents and neighborhood associations, consulting on landscaping plans, donating plants, and providing regular maintenance, including mowing, pruning, irrigation, and seasonal plantings for more than 30 projects.

This spring, horticulture staff landscaped a new "pocket park" on Maury Avenue. It is one of two vacant lots on Maury where the Garden has planted trees, shrubs, grass and perennials. The Garden teamed with the Southwest Garden Neighborhood Association to plan the parks. Residents of the neighborhood enjoy the new green spaces on their street and provide the maintenance.

Employees and customers of the Timberland Specialty Store at the St. Louis Galleria helped to plant the parks. Volunteers from the store have worked with the Garden on Earth Day for the past two years as part of the company's commitment to improving the environment.

Research

Fellowships in Memory of Elizabeth Bascom and Alwyn Gentry

Elizabeth E. Bascom Fellowship

The Elizabeth E. Bascom Fellowship in Botany for Latin American Women was established in Mrs. Bascom's memory in 1999. The program honors her dedication to the Garden's research and training programs in tropical botany. Winners of the first annual competition for the Bascom Fellowship were announced in August 1999:

Nancy Refulio, Museo de Historia Natural, Lima, Peru.

Mireya Córdoba, Pontificia Universidad Javeriana, Bogotá, Colombia.

Nidia Cuello, UNELLEZ (Universidad Nacional Experimental de Los Llanos Occidentales "Ezequiel Zamora"), Guanare, Venezuela.

Alwyn H. Gentry Fellowship

The Alwyn H. Gentry Fellowship for Studies in South American Botany honors the memory of Garden curator Alwyn Gentry, whose knowledge of the plants of Latin America and devotion to educating the next generation of tropical biologists are legendary. The first winners of the Gentry Fellowship were announced in August 1999:

Osvaldo Morrone, Instituto de Botánica Darwinion, Buenos Aires, Argentina.

Felipe Cardona, Universidad de Antioquia, Medellín, Colombia.

Alessandro Rapini, Universidade de São Paulo, São Paulo, Brazil.

Jorge Giraldo Gensini, INCIVA (Instituto Vallecaucano de Investigaciones Científicas), Cali, Colombia.

Nancy Refulio

TIM PARKER

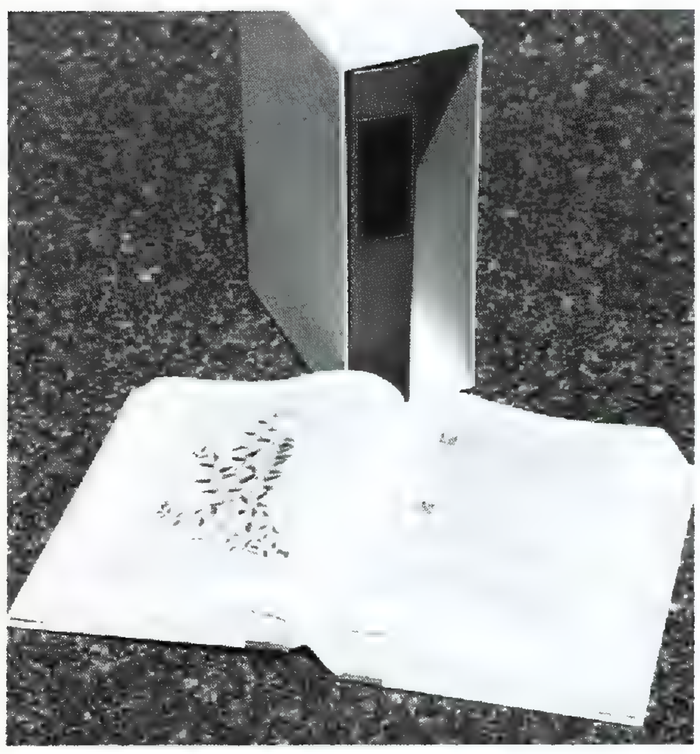
Mireya Córdoba

Nidia Cuello

Training Young Scientists from Latin America

TIM PARKER

Gentry fellows in the Garden herbarium, from left: Alessandro Rapini, Felipe Cardona, Osvaldo Morrone. Not pictured: Jorge Giraldo Gensini.



TRENT FOLTZ

The two-volume boxed set is available in the Garden Gate Shop.

The Great Herbal of Leonhart Fuchs

De historia stirpium commentarii insignes, 1542

With commentary by Frederick G. Meyer, Emily Emmart Trueblood, and John L. Heller

A masterpiece of Renaissance botany and one of the most beautiful books ever printed is now available in a facsimile edition, accompanied by volume of commentary based on three decades of research.

Fuchs's book is without equal among 16th century herbals. Its 511 woodcuts established a standard of botanical illustration that endures today. The commentary is of invaluable interest to collectors of rare books and students of medicine, art, pharmacology, philology, and printing. The volume has 159 illustrations, 106 in color.

Frederick G. Meyer, one of the authors, was on staff at the Missouri Botanical Garden from 1951 to 1957. Dr. Meyer was a graduate student at the Garden and received his Ph.D. fromWashington University in 1949. In 1954, as the Garden dendrologist, he took the lead in planting seedlings which grew into the dawn redwood trees that tower beside the Lehmann Building today. Dr. Meyer retired in 1991 as supervisor of the herbarium at the National Arboretum.

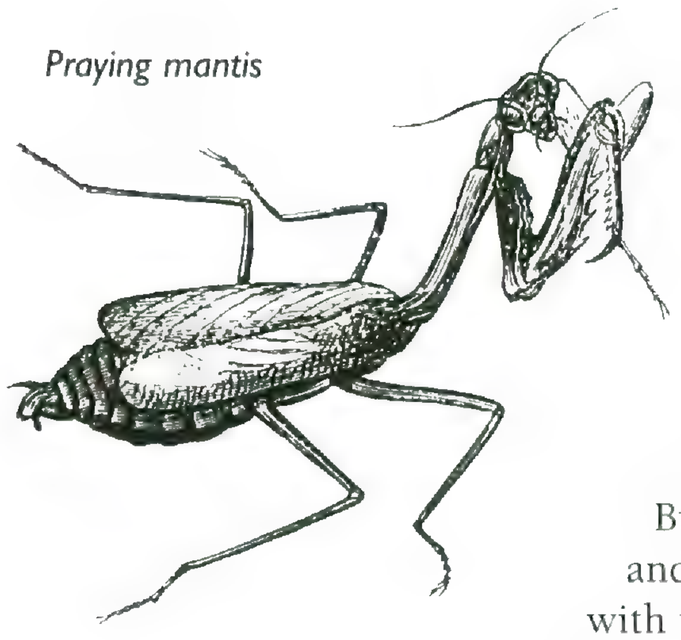
Two volume boxed set, 1,864 pages, 661 illustrations. Cambridge University Press, $299

Available in the Garden Gate Shop.

Before You SPRAY

Environmentally friendly pest control can keep your garden from turning into a salad bar for bugs.

by June Hutson



Praying mantis

IT'S EVERY gardener's nightmare: your beautiful plants are suddenly infested with destructive pests. When insects attack, you want to strike back, fast. But stop before you spray, and consider: how you deal with pesky bugs can affect the ecosystem at large, not just your own backyard.

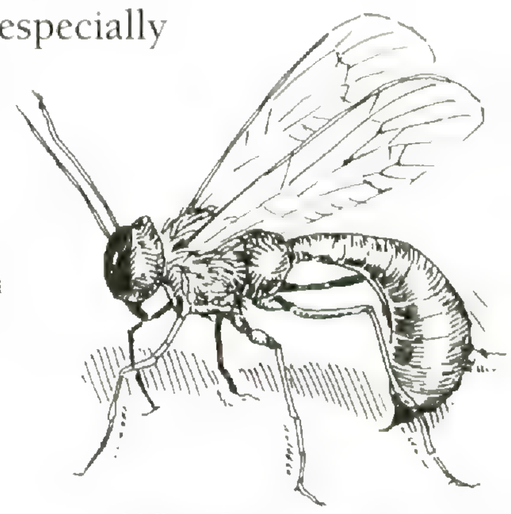
For many years, chemicals were the only defense against bugs. Today we can use beneficial insects to help control harmful pests. Insect controls are non-toxic and won't add harmful substances to our fragile environment.

Destructive insects — the "bad guys" — are vegetarians. That's why they regard our gardens as a free lunch. Thanks to the food chain, we can introduce meat-eating insects — the "good guys" — to chow down on pests and restore the natural order.

If you have been discouraged from using beneficial insects in the past, don't give up. Today the life cycle of carnivorous insects is better understood, and we have good information on how and when to release the predators for maximum effectiveness. Knowledgeable suppliers of beneficial insects are easier to find, and there are more of them.

At the Kemper Center, we have used beneficial insect controls for the past two growing seasons, thanks to the generosity and expert advice of Ken Miller and The Bug Store. The program has helped greatly in controlling aphids, mites, and slugs. We have reduced our use of chemical sprays substantially and are very pleased with the results.

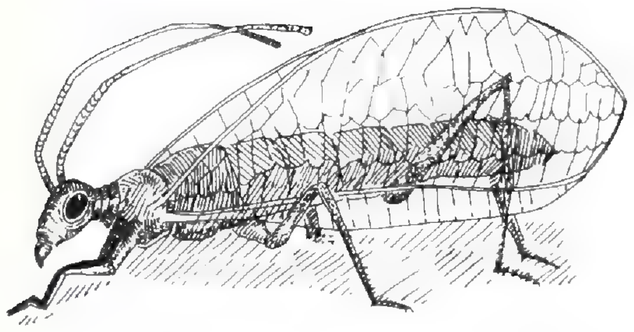
You may already be reaping benefits from beneficial insects without any effort at all. Thanks to our past mild winter, the population of lady bugs is especially large this year. Lady bugs are one of the best-known beneficial insects. They work wonders on aphids. If you need to purchase lady bugs, several small releases work better than one huge exodus. The lady bugs may wander off if there is not enough dinner to go around.



Whitefly parasitic wasp

Beneficial nematodes are microscopic worms. They come from the

Below: The Kemper Center for Home Gardening.



Lacewing

supplier pasted to a small sponge. Soak the sponge in a pail of water, then sprinkle the ground. Nematodes are parasites and attack all kinds of insects in the soil, including larvae of slugs, grubs, Japanese beetles, thrips, leaf miners, iris borers, and sod web worms. Many gardeners report slug-free hostas after they release nematodes nearby.

Lacewings are beautiful green winged insects which are purchased as tiny eggs in small vials. Sprinkle them onto your plants from the container. When they hatch, lacewing larvae are called aphid lions — aptly named, as they are voracious aphid eaters. Look for their eggs on the undersides of leaves. The small ball-like structures hang from tiny threads.

Whitefly parasites are tiny wasps with an especially gruesome life cycle. They bore a hole into the adult whitefly and lay their eggs inside the pest. When the parasites hatch, the larvae eat their way out, destroying the whitefly.

Mealy bugs, another harmful pest, are preyed upon by mealybug destroyers and brown lady bugs. Beneficial mites are a wonderful counter measure to the destructive mites which cause so much damage by sucking the juices from conifers and many flowers. Some good mites favor warmer temperatures and others prefer a cooler climate, so be sure to order the right one based on the time of year.

The praying mantis is one of the predators that you can actually observe eating other insects. The mantis isn't fussy — it can be counted on to eat whatever crosses its path, including other mantises.

There is no question that insect controls are somewhat more expensive than other options. Using them requires a commitment to nurturing the well-being of all living things.

Lady bugs

This list of beneficial predators is just the beginning. Much research is being done on other species to find even more help in controlling insects that harm our gardens.

Illustrations by Donna Emmenegger are provided courtesy of The Bug Store.

June Hutson is the Aurelia Schlapp Curator of Perennial Plants. A 24-year veteran of the horticulture staff, she is field supervisor of the demonstration gardens at the William T. Kemper Center for Home Gardening. June began working at the Garden as a volunteer in 1973, before earning her degree in horticulture from St. Louis Community College at Meramec. She is an expert on conifers and rock gardens and is responsible for plant selection at the Kemper Center. She is a popular landscape consultant, teacher, guest lecturer, and author.

KING SCHOENFELD

See a six-foot high garden snail made from handsewn, fallen birch bark with a driftwood head and snail shell eyes. It's just one of the "Wild Whimsical Wonders" you'll discover at the Kemper Center this summer.

KIDS in Bloom

July is Kids in Bloom Month at the Kemper Center for Home Gardening. Join us for fun filled, hands-on activities and make something to take home. Drop in anytime between 10 a.m. and 2 p.m. Activities are free with Garden admission or membership. Registration is not required.

Saturday July 8 – *Seed Tambourines*

Make festive tambourines and rattles filled with nature's small wonders ...seeds!

Saturday July 15 – *Veggie-Print Papers and Gift Bags*

Create one-of-a-kind designs with vegetables and paint. Great for school lunch bags and gift cards.

Saturday July 22 – *Pom-Pom Critters*

Make fuzzy bunnies, caterpillars, lady bugs, and birds. Pom-poms, felt, and yarn are provided — just bring your imagination.

Saturday July 29 – *What's the Buzz?*

Missouri's state insect is the honeybee. Learn all about these important plant pollinators from real beekeepers, who will answer questions and hand out honey samples.

Wild Whimsical Wonders

Delight in the playful, one-of-a-kind sculptures on display in the Kemper Center gardens this summer. Fanciful folk art figures are created by St. Louisans Kathleen and Michael Weltzin, whose work has been featured in Better Homes & Gardens and Midwest Living. The Weltzins use natural materials gathered from Missouri forests and prairies. Additional touches for this installation were contributed by Rick and Crissy Addis, glass blower Esteban Prieto, and potter Jo Hooker.

On exhibit are: Jack and the Beanstalk, Lighthouse and Sailboat, Bed Bugs and Dragonflies, Spider and Web, Bee Hive, Monarch Butterfly, Slim Dandy Farmer and his Dog, and more!

Directory of Regional Plant Societies

This list is published twice a year, in the January and July issues of the *Bulletin*. To change your listing, call (314) 577-5123.

American Orchid Society (Mid-America Regional Judging Committee) *David Brown* . . . . . (314) 727-2385

Belleville Area Rose Society (618) 233-4609
Dennis Nelson http://users.accessus.net/~rosenut

Bonsai Society of Greater St. Louis
Bob Harris . . . . . (314) 352-0817

Boxwood Society of the Midwest
Sheila Hoffmeister . . . . . (314) 846-8430

Dahlia Society of Greater St. Louis
Ellis Evans . . . . . (314) 843-3767

Federated Garden Clubs of Missouri
Sue Reed . . . . . (314) 965-6813

Gardeners of America (Ozark Region)
Russell McClellan . . . . . (314) 837-2470

Gateway West Gesneriad Society
Gary Dunlap . . . . . (636) 789-3604

Greater St. Louis Daffodil Club
Jim Morris . . . . . (636) 256-3927

Greater St. Louis Daylily Society
Arlie Tempel . . . . . (314) 521-2171

Greater St. Louis Iris Society
Jim Loveland . . . . . (636) 349-4977

Henry Shaw Cactus Society
Pat Thomann . . . . . (314) 773-2931

Metro East Herb Club
Marilyn Edmiston . . . . . (618) 397-4593

Metropolitan St. Louis African Violet Council
Pat Dunlap . . . . . (636) 789-3604

Mid-America Regional Lily Society
Fred Winterowd . . . . . (314) 423-5313

Missouri Botanical Garden Daylily Society
Mirko Bolanovich . . . . . (314) 965-7471

Missouri Mycological Society
Brad Bomanz . . . . . (636) 225-0555

Missouri Native Plant Society
George Yatskievych . . . . . (314) 577-9522

Missouri Orchid Society
Ron Taube . . . . . (314) 961-0577

North American Rock Garden Society
Ruth Hartsell . . . . . (314) 241-7673

Orchid Society of Greater St. Louis
Millie Schettle . . . . . (636) 584-0494

Rose Society of Greater St. Louis
Mike McDonald . . . . . (636) 227-3426

St. Louis Carnivorous Plant Society
Susan Farrington . . . . . (314) 577-9402

St. Louis Evening Herbalists
Linda Burke . . . . . (314) 961-4314

St. Louis Herb Society
Barbara Rezny . . . . . (314) 721-8886

St. Louis Horticultural Society
Mindy Keyser . . . . . (314) 421-6610 x236

St. Louis Hosta Society
Sandi Copeland . . . . . (314) 447-5980

St. Louis Water Garden Society
Joe Summers . . . . . (314) 577-9404

West County Daylily Club
Chick Buehrig . . . . . (314) 389-8261

PARTY FOR BRICK DONORS

Members' Entry Court • October 3, 2000 • 5 to 7 p.m.

Order Your Brick Today!

TIM PARKER

Don't be left out! Be a part of our festive annual celebration for donors who have given bricks in the Members' Entry Court at the Kemper Center since last year's party. All brick donations support the Garden.

- **Engraved Bricks $300 each**
- **Bronze Signature Bricks $1,000 each**
- **Up to 28 characters may be engraved on each clay brick . Names only, please. We cannot accommodate dates or sentiments.**
- **Payment may be made by cash, check, or MasterCard/Visa.**

Order forms are available at the Membership Services Desk in the Ridgway Center, at the William T. Kemper Center for Home Gardening, or you may call the Development Office at (314) 577-0874. Bricks ordered after September 6, 2000, cannot be installed in time for the party on October 3, but of course all donors are welcome to attend the party. Order your brick today!

Calendar of Events

July & Aug.

24th annual

japanese festival

Admission: *$6 Adults, $4.50 seniors, $2 members. Free to children age 12 and under.*

Featuring: San Jose Taiko drummers

NEW for 2000:

The Candyman Returns!

Kokeshi – Wooden Carved Dolls Exhibit

Nami – Regional Folk Dance

Music from Japan – Featuring Performers from the St. Louis Symphony Orchestra

Okinawa Deigo Kai – Authentic Dance from Okinawa

Hanamizuki – Song and Dance Performances

Plus – Bonsai, Ikebana, Tea Ceremonies, Bon Odori Festival Dancing, Cooking Demonstrations, Kimono Fashion Show, Shibori Dyeing, Raku Pottery Demonstrations, Children's Activities and Crafts, Candlelight Walks in Seiwa-en, Japanese Marketplace, Food & More.

COMING UP Labor Day Weekend

September 2–4, 2000

10 a.m. to 10 p.m. – Sat. & Sun.

10 a.m. to 5 p.m. – Monday

Festival Information
24-Hour Hotline:

Call 577-9400 or
1-800-642-8842

2000 Festival Theme: "Spirit of Stone"

The 24th Annual Japanese Festival is sponsored by the Missouri Botanical Garden and the Japanese Activities Committee, a coalition of organizations that includes the Japanese American Citizen's League, Japan America Society of St. Louis, Japanese Chamber of Commerce & Industry of St. Louis, St. Louis Japanese Language School for Children, St. Louis-Suwa Sister City Committee, St. Louis Japan Society, Seinen Committee, The Women's Association of the Japan America Society, and the Office of the Consulate General of Japan in Kansas City.

July & August Events

JACK JENNINGS

Bust of George Engelmann is a highlight of the new Strassenfest German Garden

July 11 Tuesday

"George Engelmann and the Strassenfest German Garden"

7 to 9 p.m., Shoenberg Auditorium. Presentations include "George Engelmann's Fortunate Connections," with Michael Long, adjunct professor, Webster University; "German Rebels at the Gateway to the West," with Douglas Hale, retired professor, Oklahoma State University; "The Strassenfest Corporation, Its Mission and Message," with Michael Wendl, president, Strassenfest Corporation; and "The Strassenfest German Garden, a Tribute to German American Immigrants," with Michelle Michalsky, MBG horticulturist. Seating is on a first-come, first-served basis. Free.

July 12 Wednesday

Dedication of the Strassenfest German Garden

Ceremony at 10:00 a.m. will feature a visit from Henry Shaw and George Engelmann, followed by a program of music and entertainment. Celebrate the dedication of the new Strassenfest German Garden with host John Pertzborn of the FOX Channel 2 Morning Show. Enjoy traditional German music and dancing by Männerchor, the Liederkranz Club, and the German Cultural Society Ladies' Chorus and Trachtengruppe Dancers. Free with Garden admission or membership.

Alaadeen, a leading artist on the Kansas City jazz scene, performs at the Whitaker Jazz Festival on July 12.

July 1 – 28

"Cacti & Succulents" Exhibit

9 .m. to 8 p.m. daily, Grigg Lobby. Dramatic large format color photos of desert plants by Steve Feiner of the Henry Shaw Cactus Society. Free with Garden admission or membership.

July 1 – August 18

"Plant Studies from the Tallgrass Prairie" Exhibit

9 a.m. to 8 p.m. daily, Monsanto Hall. Paintings of grasses and wildflowers by George Olson, one of the nation's leading botanical artists. Free with Garden admission or membership.

July 1 – September 30

SHAW 200TH ANNIVERSARY EVENT

Guided Historical Tours

Walking tours of the Garden's Victorian areas are offered each Wednesday and Saturday from now through September 30, except September 2. Tours leave from the ticket counter at 10 a.m. Free with Garden admission or membership.

July 5 Wednesday

Whitaker Jazz Festival: Jeanne Trevor

7:30 p.m., Cohen Amphitheater. Bring a picnic or feast on the sights and sounds. Cash bar. Sponsored by the Whitaker Foundation, with support from WSIE-FM 88.7. Free.

July 12 Wednesday

Whitaker Jazz Festival: Ahmad Alaadeen

Finale concert 7:30 p.m., Cohen Amphitheater. See July 5 for details.

July 15 Saturday

SHAW 200TH ANNIVERSARY EVENT

Garden StoryTime

11 a.m., Garden Gate Shop Book Department. Henry Shaw will tell stories about the Garden and read some of his favorite tales popular in Victorian times and today. For children ages 4 to 10. Parents and guardians are welcome, and children under 4 must be accompanied by an adult. All children's books are an additional 10% off for those

July & August Events

attending StoryTime. Free with Garden admission or membership.

July 15 – 23

Henry Shaw Cactus Society Show and Sale

July 15 from noon to 8 p.m., July 16 from 9 a.m. to 8 p.m., July 17-21 from 9 .m. to 5 p.m., July 22 from 9 a.m. to 8 p.m., and July 23 from 9 a.m. to 5 p.m. Orthwein Floral Hall. Free with Garden admission or membership.

July 21 Friday

200TH ANNIVERSARY EVENT

"A Victorian Summer Soirée"

7 p.m., Tower Grove House and grounds. Tickets begin at $125 per person. See page 14 for details.

July 22-24
Saturday – Monday

200TH ANNIVERSARY EVENT

Happy Birthday, Henry!

See page 3 for details.

July 30 Sunday

Iris Society Sale

10 a.m. to 5 p.m., Beaumont Room. The Iris Society of Greater St. Louis holds its annual sale. Free with Garden admission or membership.

July 30 Sunday

"Propogating Lilies" Demonstration

2 p.m., Beaumont Room. Jeff Stiller, a well-known expert on Oriental lilies, will present a hands-on demonstration on hybridization and propagation of lilies and other plants. Sponsored by Mid-America Regional Lily Society (MARLS). Free with Garden admission or membership.

July 31 – August 11

"Water Lilies"

9 a.m. to 8 p.m., exhibit of art in Grigg Lobby. Free with Garden admission or membership.

August 6 Sunday

Orchid Society Auction

12:30 to 5 p.m., Orthwein Floral Hall. The Orchid Society of Greater St. Louis presents its annual auction. Free with Garden admission or membership.

August 10 – 12

International Water Gardening Society Symposium

Following their annual meeting in Chicago, the IWGS will gather in St. Louis for three days of "post symposium" seminars, tours, and programs focusing on aquatic displays at the Garden and the legacy of George H. Pring. Open to the public; $165 per person. Call (314) 577-9404 (press #6) for information and registration.

August 13 Sunday

Daylily Society Sale

9 a.m. to 5 p.m., Orthwein Floral Hall. The Missouri Botanical Garden Daylily Society presents its annual sale of plants from the Garden's daylily collection. All proceeds benefit the Garden. Free with Garden admission or membership.

August 14 – September 29

"Peterson's Field Guide to Western Trees" Exhibit

9 a.m. to 8 p.m. daily, Grigg Lobby. Exhibition of 26 paintings by Olivia Petrides. A rare opportunity to see the original artwork featured in the popular book. Free with Garden admission or membership.

August 19 Saturday

Garden StoryTime

11 a.m., Garden Gate Shop Book Department. St. Louis author Brigette Gutsche will tell stories from her new books Skippy and To Be a Friend. See July 15 for details.

August 24 – September 5

Exhibit of Japanese Art

On display during Japanese Festival hours September 2-4, regular Garden hours other days. Ridgway Center. Free with Japanese Festival admission September 2-4; other days free with Garden admission or membership.

July 13 Thursday – Members' Day

"Harvesting and Using Herbs"

11 a.m., Shoenberg Auditorium. Enjoy a presentation by Pat Holt of the St. Louis Herb Society. In the Garden Gate Shop, members receive an additional 5% discount on MBG herbs and spices, herb books, and herb plants. Seating is on a first-come, first-served basis.

August 15 Tuesday – Members' Day

"Tallgrass Prairies"

11 a..m., Shoenberg Auditorium. Doug Ladd, director of conservation science for the Missouri Chapter of The Nature Conservancy, will present a program on the beauty and importance of prairies in the natural ecosystem. He will sign copies of his book Tallgrass Prairie Wildflowers *in the Garden Gate Shop following the lecture. Receive an extra 5% discount on copies of Ladd's book and on wildflower seeds. Seating is on a first-come, first-served basis..*

Members' Days are free, for Garden members and their guests. Receive free tram rides, extra discounts in the Garden Gate Shop, and 10% off in the Garden Café.

Members

A Victorian Summer Soirée

Friday, July 21, 2000

Friday, July 21, 2000

Henry Shaw invites you to launch his 200th birthday weekend with an elegant party at Tower Grove House. Japanese lanterns will illuminate the grounds, guest artists from Opera Theatre of St. Louis will entertain, and dinner will be served in tents on the lawn. $125 per person. Please call (314) 577-5141 for reservations by July 14.

Free Benefit of Garden Membership

REMEMBER: as a Garden member, you get free benefits at other botanical attractions throughout the United States and Canada. Call the Membership Office at (314) 577-5118 to request a list of arboreta, botanical gardens, and conservatories that offer free reciprocal admission and additional benefits to members of the Missouri Botanical Garden.

Young Friends Share "A Bloomin' Happy Hour"

NEARLY 300 people enjoyed "A Bloomin' Happy Hour" sponsored by the Young Friends of the Garden and Keystone on May 12. Our thanks to Jennifer Macalady and Susie Hizar, co-chairs, and to sponsors Anheuser-Busch, Hereford Printing, and The River 101 FM.

Save the Date!

"Best of Missouri" Market 2000

Saturday and Sunday, October 7 & 8

Don't miss the ninth annual festival featuring over 100 Missouri vendors, entertainment, kids' activities, and cooking demonstrations. Watch for details in the September/October issue of the Bulletin.

TIM PARKER

A Victorian Garden Party Thank You

OUR APPRECIATION for the successful Mother's Day Luncheon and Fashion Show on May 9 goes to the committee chaired by Andrea Tramelli and Sharon Kruszewski. Nearly 600 guests were greeted by Henry Shaw. Dillards sponsored the event and presented a show of colorful spring fashions. "Fashions of the Past" presented authentic Victorian attire as part of Henry Shaw's 200th Birthday Celebration.

From left: Celebrity emcee Cindy Preszler, director of weather operations for KSDK Channel 5, with Sharon Kruszewski and Andrea Tramelli, co-chairs.

News of Note

TIM PARKER

"An Herbal Gathering" Benefits the Garden – In June, the St. Louis Herb Society and the Ladue Garden Club presented a check to the Garden for $35,000 to benefit renovations of the herb garden at Tower Grove House. The groups raised the funds with "An Herbal Gathering," a special day of seminars, luncheon, and fun held April 12, 2000. Shown presenting the check to Peter Raven are (from left): Jill Dowd, president of Ladue Garden Club; Suzanne Switzer and Barbara Ottolini, co-chairs of the event; Peter Raven; Mary Ann Hogan, chair for the event; and Pat Leigh, president of the St. Louis Herb Society.

Misselhorn Drawing Donated

An original drawing of Tower Grove House by Roscoe Misselhorn, a noted St. Louis artist, will soon be on display in the House. The drawing was done in 1970 for the cover of a calendar produced by Alexander and Sons Mortuary. James Alexander, who operated the business with his father and brother, gave the drawing to Tower Grove House this spring.

New Corporate Partners

Corporate Partners provide outstanding support for the Garden and receive wide recognition for their service to the greater St. Louis community. Corporate members are invited to many special events at the Garden throughout the year. We are proud to announce three new members of the Corporate Partners Program. For more information, please call Rachel Hartmann, corporate/foundation officer, at (314) 577-9513.

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Bell Electrical Contractors, Inc.

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Be a Garden Guide or Instructor

Garden Guides are docents who lead outdoor walking tours of the Garden, and instructors lead classroom activities. In addition to the training, enrichment programs are offered on a regular basis. Following their training, candidates are expected to make a commitment to serve one day a week for at least two years.

Applications are required. Training begins on Mondays in October. For more information or to schedule an interview, please call Julie Knobbe in the Education Division, (314) 577-0226.

Take Your Child to Work Day

On April 27, Henry Shaw welcomed 15 children to national Take Your Child to Work Day at the Garden. The kids came with a parent, neighbor, sibling, or grandparent to see what goes on in the workplace. Each child received a certificate and seed packets, and the horticulture staff planted a tree commemorating the day. Henry Shaw encouraged the children to visit often to see their tree grow.

TIM PARKER

British Consul Visits Tower Grove Park

Robert Culshaw, British Consul in Chicago, visited the Garden and Tower Grove Park in May to discuss plans for Henry Shaw's 200th Birthday Celebration. Shown in front of the Park office are (from left): Jonathan Kleinbard, deputy director of the Garden; Dr. Marshall R. Crosby, senior botanist at the Garden; Robert Culshaw; John Karel, director of Tower Grove Park; and Val Lammert, Honorary British Consul in St. Louis.

TIM PARKER

Is It Wort—or What?

DO HERBAL REMEDIES SUCH AS ST. JOHN'S wort and ginseng really work? Are they safe? How can you be sure of their purity?

Botanists from the Garden's Department of Applied Research are developing standards for rapid, inexpensive identification of plants used as ingredients in herbal supplements. The protocols will ensure that desirable species are not confused with look-alikes or contaminated with other species.

Many plants look alike. Garden botanists are establishing benchmarks to aid in identifying species used in herbal supplements.

The project is part of a new $5.7 million research effort led by the University of Missouri, Columbia, and funded by the National Institutes of Health. Garden botanists will identify plant species used as active ingredients in dietary supplements, while researchers from the University will isolate active chemicals, document their efficacy, and study how these compounds act in the human body. The Garden's work focuses solely on plant identification and does not investigate any health effects or other claims attributed to herbal medicines.

"Before we can consider issues of efficacy, drug interaction, or toxicity, we must have methods for ensuring proper identification of the plant species used in dietary supplements," said Dr. James S. Miller, curator and head of the Garden's applied research program. Many plants look alike and can be recognized only by botanists with expertise and experience in plant identification. The Garden's five-year project will produce a catalog that will help put such expertise into the hands of manufacturers of herbal supplements and others who may benefit.

Botanists are trained to discriminate very precisely between similar species of plants. For example, St. John's wort, *Hypericum perforatum*, is part of a large, complex genus with 370 species. Chemists often identify a plant by the presence of a particular chemical compound, but the same compound may be present in more than one species. Botanists distinguish species based on plant characteristics such as leaf and petal shape, presence or absence of glands, and type and presence of hairs. This kind of precision ensures that the plants included in an herbal remedy such as St. John's wort are indeed *H. perforatum* and not another, similar species.

The Garden's superb herbarium of over five million mounted plant specimens and its priceless botanical library collection are essential resources for scientists who conduct these kinds of studies.

Botanists sort plant materials for further study and identification. At left, Jim Miller, Adam Bradley, and Heidi Schmidt.

Below: Pressing plant specimens to prepare them for further study.

A Code of Ethics

The Missouri Botanical Garden is a leader in identifying and addressing the ethical considerations of natural products research. From the beginning, Garden scientists recognized the fine line that exists between research and commercial development.

The Garden helped to set the standard for dealing with these issues. The National Cancer Institute's "Letter of Collection," considered to be one of the first models for ensuring equitable participation by source countries in natural products research, grew out of the Garden's efforts in 1989 to establish a program in Madagascar to collect for NCI. The agreement also ensures that any profits arising from newly discovered medicines will be shared with the source countries, recognizing the importance of their rich biological diversity.

The Garden agreements of 1989-90 anticipated and are still fully compliant with the 1993 Convention on Biological Diversity, an international treaty that dramatically changed the way countries regulate access to their plant genetic resources. The Garden strictly adheres to the treaty, the NCI letter, and to its own Natural Products Research Policy.* Under these guidelines, Garden scientists will collect material for commercial uses only with full prior informed consent from the host country, and all collecting must minimize impact to any population, species or ecosystem.

The Garden's policy also addresses property rights pertaining to plant-derived products to assure that an appropriate percentage of profits generated by any product will return to the source country. In all cases, the Garden collaborates with scientific institutions and colleagues in the host country.

**The full text of MBG's Natural Products Research Policy is available on the Garden's Web site: www.mobot.org.*

Other Natural Products Research

Since 1986, Garden botanists have collected more than 30,000 plant samples which are screened for chemical compounds that may lead to new pharmaceutical and agricultural products. They collect in Africa and Madagascar for the National Cancer Institute, in the U.S., Ghana, and Georgia for the Monsanto Company, and in Suriname and Madagascar as part of an International Cooperative Biodiversity Group.

At the National Cancer Institute (NCI), scientists have discovered 13 chemical compounds from plants collected by Garden botanists. Most of these compounds are entirely new to science, and many have shown anti-HIV or anti-cancer activity in preliminary tests.

However tantalizing, such discoveries may take years to produce a useful new medicine or product. Miller said, "The joint project with the University will provide direct benefits to people close to home. Each step adds up to help make the world a better place."

HEIDI SCHMIDT

Plant samples collected by Garden researchers in Tanzania for screening by the National Cancer Institute.

In Memoriam

MISSOURI BOTANICAL GARDEN ARCHIVES

Tom K. Smith Jr.

TOM K. SMITH JR., a trustee of the Garden since 1967, died April 18, 2000. He was an executive with Monsanto Co. for 40 years and retired in 1979 as a senior vice president and board member.

Mr. Smith served as president of the Garden's Board from 1975 to 1981, a period of phenomenal growth at the Garden. His term as president was distinguished by creation of the English Woodland Garden, dedication of the Japanese Garden, and beginning construction of the Ridgway Center.

Mr. Smith was an inspirational leader who modernized the Garden's financial and investment strategies and moved the trustees' meetings to the Garden to heighten awareness of the institution's needs. He led the successful petition to revise Henry Shaw's Will to permit restructuring the Board and creating term trustees. He worked tirelessly to further the goals of the 1972 Master Plan and was central to the success of the capital campaign for the Ridgway Center.

As a farsighted and committed civic leader, Mr. Smith also served on the boards of many other St. Louis cultural institutions. He was a native St. Louisan who attended St. Louis Country Day School and graduated from Williams College in Williamstown, Massachusetts.

Peter Raven said, "Tom was always in favor of broadening the impact of the Garden on the community. His presence will long be felt by those who enjoy the benefits of this institution. He was a great personal friend and an important mentor, and like all of you, I shall miss him greatly."

Gift Planning

Bequests – Looking to the Future

Through a bequest, you can provide significant support for Garden programs or perpetuate your current giving level. If you have not made an outright gift during your lifetime, a bequest gives you the opportunity to leave a legacy that will strengthen the Garden in the future.

There are several types of bequests. You can designate the Garden to receive a specific amount, or a percentage, of money, securities, or property; to receive a residual of your estate after all specific bequests are fulfilled; or to be the contingent beneficiary if your named individual beneficiaries do not survive you.

If you already have a will, it can be easily modified by adding a codicil. A bequest in your will allows you to pass any amount you wish to the Garden free of estate tax.

If you have made a provision for the Garden in your will, but have not notified us of your intent, we encourage you to do so. We would appreciate the opportunity to thank you and to include you as a member of our Heritage Society.

For information on charitable estate planning, or if you would like to become a member of the Heritage Society, please call Judi Schraer, Planned Giving Officer, 314-577-9455, or email judi.schraer@mobot.org.

PETER NEWCOMB

THE BEQUEST AND GIFT ADVISORY COUNCIL was recently established to assist in promoting deferred and estate gifts to the Garden. Pictured, front row, left to right: Ellen Jones, Jean Volk, Lisa McLaughlin, Marjory Graff. Center row, left to right: John Kourik, Roger Volk, Martha Schermann, Larry Katzenstein, Marjorie Tooker Patton, Bill Vickroy. Back row, left to right: Peter Raven, Stephen Brauer (president, Board of Trustees), Jefferson Miller, Desmond Lee. Not pictured: Carolyn Losos (chair), Nancy Dilley, Ben Keller, Greg Keller, Douglas MacCarthy, Michael Niemann, Edith Spink, and Jessie Ternberg.

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MARCH. – APRIL. 2000

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For information on making a gift to the Tribute Fund, please call the Development Office at (314) 577-5120.

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continued on page 20

Create a Legacy

By leaving a bequest to the Garden, you create a legacy that will benefit others for generations to come. If you have already included the Garden in your estate plans, we hope that you will share this information with us. We would like to express our gratitude and welcome you into the Heritage Society. Of course, your wishes for anonymity are respected. Please call Judi Schraer, Planned Giving Officer, (314) 577-9455 for further information and a complimentary brochure.

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continued from page 19

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During the summer, the Garden Gate Shop is open 9 a.m. to 6:30 p.m. daily and until 7 p.m. on Friday and Saturday for your shopping convenience.

PHOTOGRAPHS BY TRENT FOLTZ

"The Shop at the Garden"

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To plan a superb party or corporate event at the Garden, call (314) 577-0200.

Missouri Botanical Garden

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japanese festival
labor day weekend 2000

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B U L L E T I N

Missouri Botanical Garden

SEPTEMBER / OCTOBER 2000

The Orient by Tram

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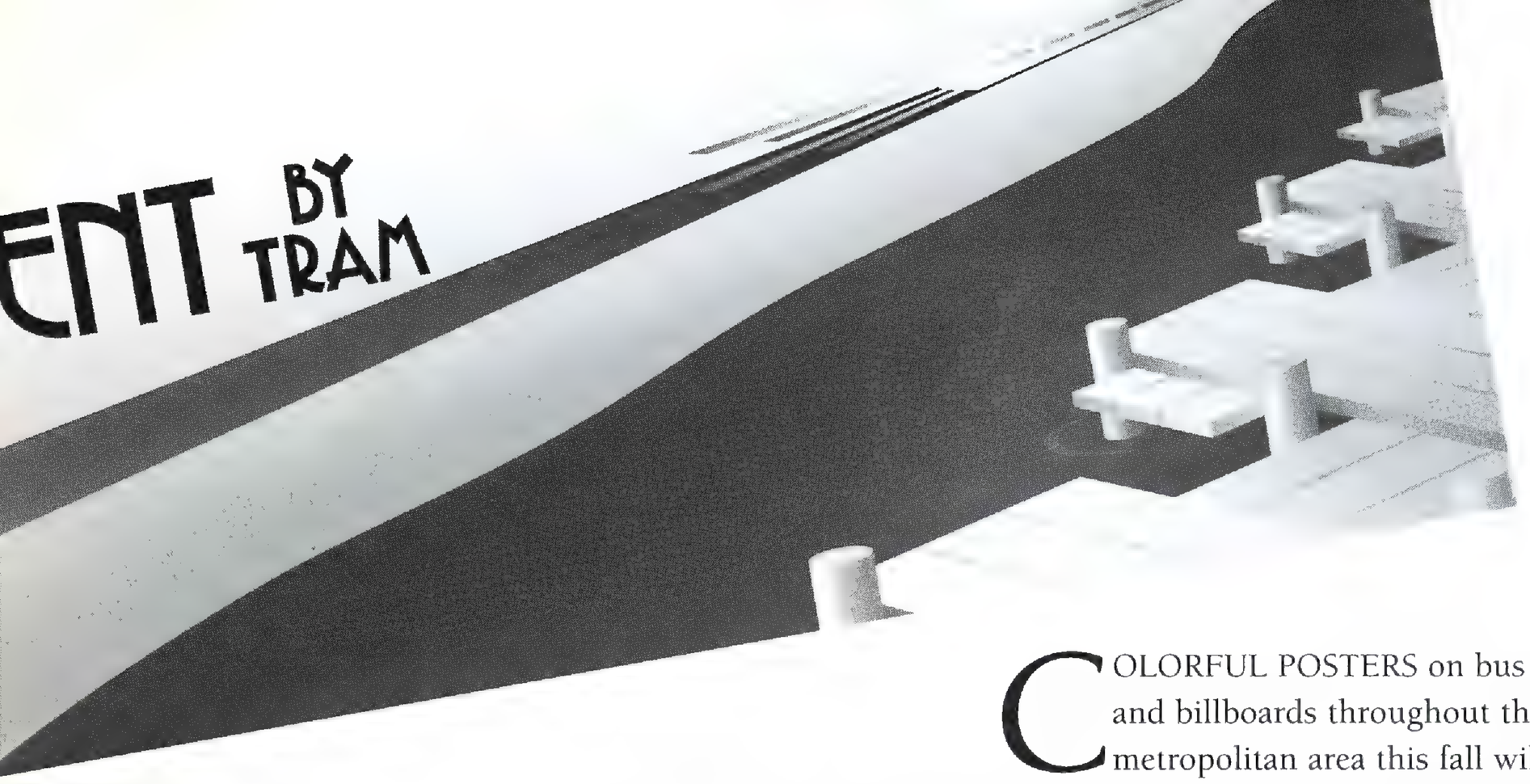
Volume LXXXVIII
Number Five

New ads invite visitors to take a magical journey and discover the the Garden.

THE G

Spend Sunday in the Amazon!

-It's like a rainforest in your own backyard!



MISSOURI BOTANICAL
AUG 3 0 2000
GARDEN LIBRARY

COLORFUL POSTERS on bus shelters and billboards throughout the metropolitan area this fall will invite people to explore, discover, relax and have fun in the Climatron® rain forest, the Japanese Garden, the Chinese Garden, the Victorian Maze and the Kemper Center — to "see the world!"

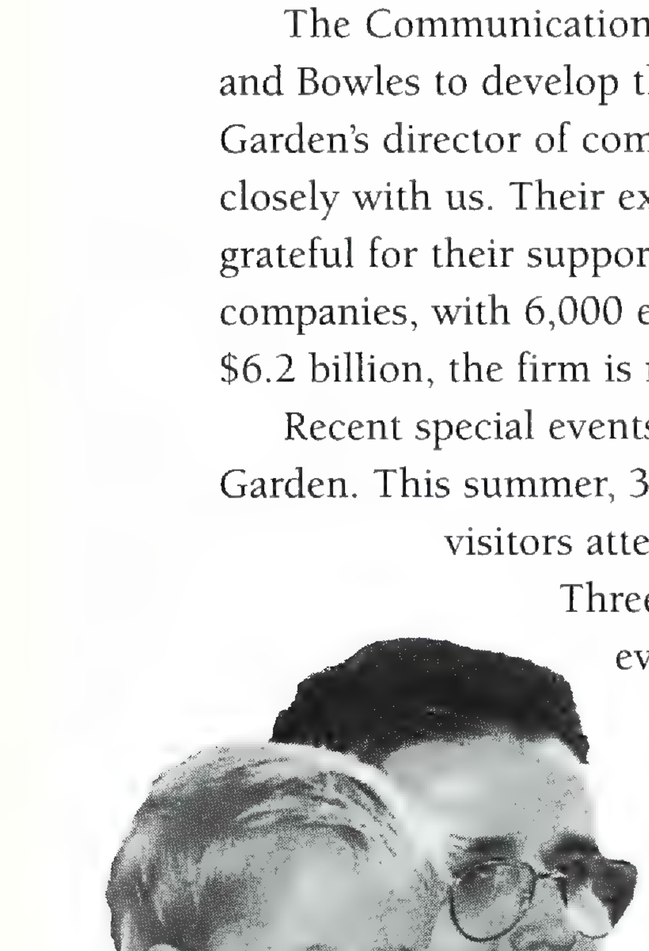
Members already enjoy the Garden and appreciate its opportunities to explore and discover the beauty of nature. But many St. Louisans and visitors have not been to the Garden in years, or they are unaware of its wonderful attractions and special events. As part of the Long Range Plan adopted by the Board of Trustees, the Garden is working to substantially increase attendance in coming years.

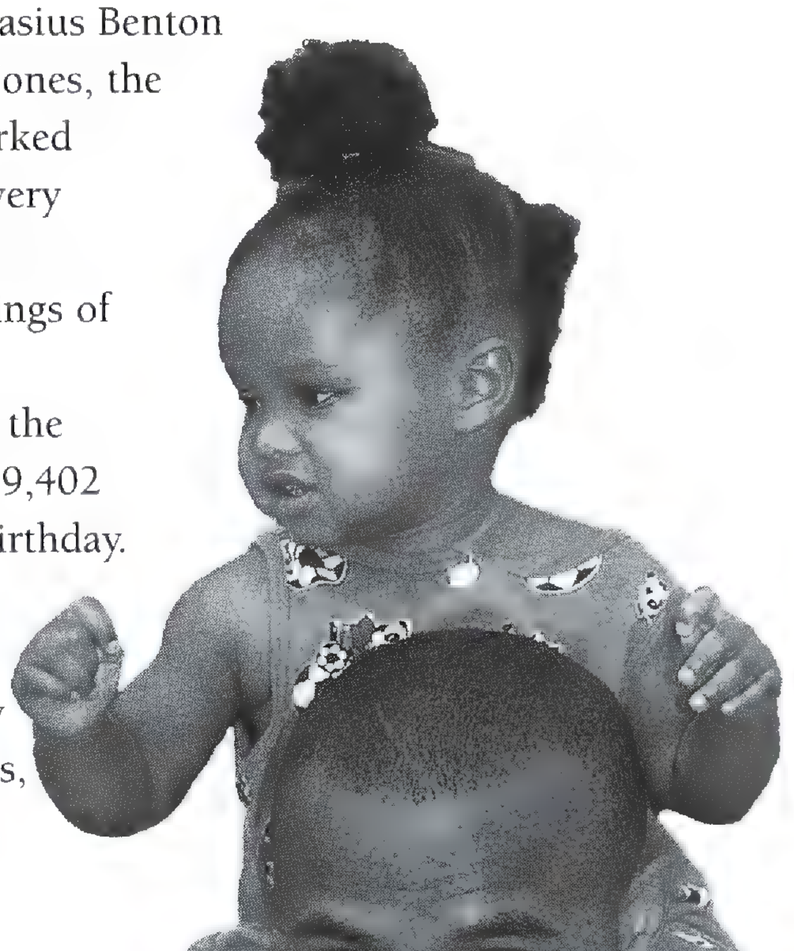
Members are the foundation of the Garden's strength and serve as its most important ambassadors. As a Garden member, you are an important partner in our goal to share the Garden with everyone in the community, to help visitors discover the importance of plants and the environment and their essential relationship to human life.

The Communications Division relied on the *pro-bono* assistance of D'Arcy Masius Benton and Bowles to develop the new brand vision and advertising campaign. Brenda Jones, the Garden's director of communications, said, "The team from D'Arcy St. Louis worked closely with us. Their expertise and commitment are extraordinary, and we are very grateful for their support." D'Arcy is one of the world's leading communications companies, with 6,000 employees in 131 offices in 75 countries. With 1999 billings of $6.2 billion, the firm is ranked among the largest in the world.

Recent special events highlight the importance of welcoming new visitors to the Garden. This summer, 34,322 people attended the Whitaker Jazz Festival, and 19,402 visitors attended the three-day celebration of Henry Shaw's 200th Birthday. Three hundred forty-two memberships were sold during the events, nearly 80 percent to new members.

Once families and friends discover the Garden, they return again and again. From now through the holidays, watch for the Garden's colorful messages around town and bring someone new to visit!





Comment

Missouri Botanical Garden Mission:
To discover and share knowledge about plants and their environment, in order to preserve and enrich life.

HENRY SHAW'S FORESIGHT AND GENEROSITY have enhanced the qualilty of life for generations of people in St. Louis and the wider world. Seventeen of the institutions provided with bequests in Shaw's Will continue to provide our community with outstanding education, scientific research, cultural enrichment, and social services.

On Monday, July 24th, we welcomed guests to the Garden for a very special ceremony honoring the 200th anniversary of Henry Shaw's birth. Thirty-one people signed a handsome proclamation "in appreciation of his foresight and wisdom" and gathered on the steps of the Museum Building for the historic photograph below.

It is extraordinary for one individual to affect the lives of so many people so profoundly, not only in his own time but continuing through two centuries. This fall, our year-long celebration of Shaw's bicentennial features a landmark series of panel discussions, "Henry Shaw in His Time and Beyond," by scholars from across the United States (see page 13). I encourage you to attend these exceptional programs, which will illuminate the forces that shaped our city and society.

As we invite visitors to "See the World" at the Garden, also be sure to join us Labor Day weekend for the Japanese Festival, and October 7 and 8 for the ninth annual "Best of Missouri" Market and the Historic Shaw Art Fair, featured on page 14.

— Peter H. Raven, Director

Pictured below, standing at far left: Gary Slyter, The Charless Home; Drew Karandjeff, Edgewood Children's Center. Seated beside steps, back row, left to right: Susan Lammert, Tower Grove Park; Martha Dille, The Charless Home. Seated beside steps, front row, left to right: Ruth Bryant, Mercantile Library of St. Louis; Anne Fields Baker, The Educational Center.

Seated on steps, left to right: Suzanne Stolar, Academy of Science of St. Louis; Bishop Hays Rockwell, Episcopal Diocese of Missouri; Sue Stepleton, Edgewood Children's Center (front step); Sister Irene Marie Clare, Little Sisters of the Poor; Michael Brennan, Evangelical Children's Home; Barbara Schaal, Washington University; Kathy Lupo, Beauvais Manor on the Park (front step); Bob Stupp, Academy of Science of St. Louis; Oliver Berwin, Evangelical Children's Home (front step); Bob Archibald, Missouri Historical Society; Frank Jacobs, Missouri Historical Society.

Standing on steps, left to right: Sister Mary Sylvia Karl, Little Sisters of the Poor; Ralph Thaman and Carol DiSanza, The Good Samaritan Home for the Aged; John Neal Hoover, Mercantile Library of St. Louis; Steve Ira and Gail Glasser, YMCA of Greater St. Louis; Charles Schott, Beauvais Manor on the Park; Ralph Quatrano, Washington University; Gary Olson, St. Luke's Hospitals; Richard Battram, St. Luke's Hospitals; Kevin Drollinger, Epworth Children and Family Services; Peter Raven and Stephen Brauer, Missouri Botanical Garden; John Karel, Tower Grove Park.

TIM PARKER

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www.mobot.org

Garden Hours
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On the Cover
A colorful poster invites visitors to visit "The Orient by Tram."
Back cover: Andrew Braswell at the 1999 Best of Missouri Market – photo by David Braswell.

Editor
Susan Wooleyhan Caine

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The BULLETIN is sent to every member of the Garden as a benefit of membership. For a contribution of as little as $55 per year, members also are entitled to: free admission to the Garden, Shaw Arboretum, and Tower Grove House; invitations to special events and receptions; announcements of all lectures and classes; discounts in the Garden Gate Shop and course fees; and the opportunity for travel, domestic and abroad, with other members. For information, call (314) 577-5118.

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Volunteers

Volunteer Evening 2000

AT the annual Volunteer Evening on June 15, the Garden paid tribute to the hundreds of extraordinary people who generously contribute their time and expertise to keep the Garden operating at the highest level of service. Individuals and organizations were singled out for special awards.

In his invocation for the evening, William Barnaby Faherty, S.J., said, "We gather at the Garden to recall the generosity of Henry Shaw, the wise guidance of Dr. Gray and Dr. Engelmann, the encouragement of Sir William Jackson Hooker, the leadership of directors Trelease, Moore, Anderson, and our own Peter Hamilton Raven, and their staffs and co-workers, and the generosity of the Board and benefactors, and especially today, the countless volunteers who give time to the great purpose of Henry Shaw, to make the Garden available and meaningful to their fellow St. Louisans."

Volunteer Awards for 2000

Extra Service Hours	*Bob Harris, Horticulture*
Special Achievement	*George Thornburgh, Research*
Career Service	*Shirley Durfee, Education*
Commitment	*Chris DePalma, Education*
Organization	*Membership Services and Information Desk*

MARY BUTKUS

Award winners (from left): Bob Harris, Shirley Durfee, Peter Raven, Claire DePalma. Not pictured: George Thornburgh.

Above: Representing the 64 volunteers of the Membership Services Desk, front row, from left: Walter Blaine, Jane Bosche, Sue Oertli, Alberta Blaine, Freda Lohr, Katie Harper. Middle rows, left to right: Mim Kittner, Marilyn Rapheal, Jacqueline Crider, Helen Walck, Sue Quirk, Jeanette Neuner, Ann Spradling, Gene Spradling, Nancy Wallace, Linda Wagoner, Ruth Clark, Bob Harper. Back row, from left: Rosalyn Madden, Frank Becklean, Peter Raven, Pat Becklean.

TIM PARKER

Strassenfest German Garden Is Dedicated

THE NEW STRASSENFEST GERMAN GARDEN opened with a two-day celebration in July that honored the German immigrant heritage of St. Louis. The dedication ceremony on July 12 featured traditional German music and dancing by Männerchor, the Liederkranz Club, and the German Cultural Ladies' Chorus and Trachtengruppe Dancers. The new garden, at the south end of the Lehmann Building, features a bronze bust of Dr. George Engelmann, a German physician and botanist, who immigrated to St. Louis in the 1830s and was a principal scientific advisor to Henry Shaw. The Strassenfest German Garden was made possible by the generosity of the St. Louis Strassenfest Corporation.

Shown at the dedication ceremony (from left): Dr. Peter H. Raven, Michael Wendl, president of the St. Louis Strassenfest Corporation, and St. Louis Mayor Clarence Harmon.

Corporate Partners

A.G. Edwards & Sons, Inc.

THE YEAR 2000 marks the second anniversary of A.G. Edwards & Sons' charter membership in the Garden's Corporate Partners program. In 1998, the Garden launched the Corporate Partners program to strengthen the relationship between the Garden and the greater St. Louis corporate community. There are currently 36 corporate members.

A.G. Edwards was founded in 1887. The founder, Albert Gallatin Edwards, and the Garden's founder, Henry Shaw, were both influential residents of St. Louis and played significant roles in the development of the city in the 19th century. Today, A.G. Edwards is one of the country's premier full-service investment firms, and the Missouri Botanical Garden is one of the world's leading botanical institutions.

"The Garden is not only a beautiful place to visit, but it is also working to strengthen the city neighborhoods around the Garden — something that A.G. Edwards strongly supports," said Laura Waidmann, associate vice president and director of corporate giving.

This year, A.G. Edwards is included in Fortune magazine's "100 Best Companies to Work for in America," the fifth time the firm has been recognized on this exclusive list. Attention to personal service continues to win A.G. Edwards accolades in the national press. Kiplinger's magazine ranked the firm as No. 1 in its survey of full-service investment firms, appearing in the magazine's "Stocks 2000" issue.

New Corporate Partners

Corporate Partners provide outstanding support for the Garden and receive wide recognition for their service to the greater St. Louis community. Corporate members are invited to many special events at the Garden throughout the year. For more information, please call Rachel Hartmann, corporate/foundation officer, at (314) 577-9513.

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FIVE THOUSAND DOLLARS + 00/100
Memo ENVIRONMENTAL GRANT

Eco-Carts Win Award from Sam's Club

In June the Garden received a $5,000 Wal-Mart Environmental Land-Air-Water Grant for the Eco-Carts program. Wal-Mart and Sam's Clubs make the awards to support local environmental efforts in communities where their stores are located. Eco-Cart demonstrations educate visitors about science concepts and how they relate to important environmental issues. Shown here, a school group enjoys "Botanical Bonanza," a demonstration of rubber, cocoa, paper, and other products from the tropics. Standing, from left: Patty Arnold, director of development; Jason Stewart and Diane English, representatives of Sam's Club; and Susan Mintz of the Education Division.

Trustees

Orthwein and Maritz Honored for Service

The Board of Trustees paid tribute to two of their members for decades of service to the Garden at the Board meeting on June 14, 2000.

TIM PARKER

From left: Jack E. Thomas Jr., first vice president of the Board, with William Orthwein, William Maritz, and Peter Raven.

William R. Orthwein Jr. – 25 Years

William Orthwein joined the Board in 1975, bringing to the Garden his extensive knowledge and business expertise and a broad history of service to the St. Louis community. Mr. Orthwein was first vice president of the Board in 1980 and has been active in three capital campaigns, including serving on the steering committee for two of the campaigns. He and his wife Laura have supported the Garden with extraordinary generosity over the years and are charter members of the Peter H. Raven Society. The Orthwein Floral Hall in the Ridgway Center and the exhibit hall in The Monsanto Center are named in their honor.

William E. Maritz – 20 Years

Bill Maritz became a Garden trustee in 1980. A generous and committed civic leader, he was named St. Louis Citizen of the Year in 1999 and provides leadership for the Garden with creative spirit and vision. Mr. Maritz recently served as chair of the Garden's long-range planning committee, which set the agenda for the coming decade, and has given generously of his time and expertise to help develop the Garden's new marketing strategy. He is a charter member of the Peter H. Raven Society. He and his family gave the atrium in the Education wing at the Ridgway Center in memory of his parents, Eugenia and James Maritz. At the Kemper Center for Home Gardening, Maritz Inc. gave the Maritz Apple Allée in the demonstration gardens.

Henry Shaw Medalist 2000

Rachel Lambert Mellon

MRS. PAUL MELLON, internationally renowned horticulturist and landscape designer, will be awarded the Henry Shaw Medal on Wednesday, October 18, 2000 at the annual Henry Shaw Dinner.

The Henry Shaw Dinner honors members of the Peter H. Raven Society and the Henry Shaw Society. For information on the benefits of advanced levels of membership, please call Kelly Dopman, (314) 577-0847.

Among Mrs. Mellon's contributions to the art of garden design and restoration are the Rose Garden and the Jacqueline Kennedy Garden at the White House, Lafayette Square in Washington, D.C., the John F. Kennedy Library in Boston, and the *Potager du Roi* at Versailles. Her honors include the *Officier de l'Ordre des Arts et Lettres de la Republique Française*, the Royal Horticultural Society's Veitch Gold Medal, and the American Horticultural Society Landscape Design Award. In 1999 she received an Honorary Doctor of Fine Arts degree from Rhode Island School of Design.

For more than 40 years, Mrs. Mellon has devoted herself to developing the grounds at Oak Spring, the estate in northern Virginia she shared with her recently deceased husband. The celebrated Oak Spring Library, for which Mrs. Mellon has gathered volumes throughout her lifetime, includes rare books, manuscripts, works of art, and artifacts. It traces the history of gardening to the 15th century and documents the work of naturalists, explorers, and virtuosi.

Mrs. Mellon recently initiated a major collaborative project, led by the National Gallery of Art and funded by the Andrew W. Mellon Foundation. The Mellon Rare Books Digitization and Preservation Collaborative will conserve important, beautifully illustrated, scholarly botanical books and make them widely accessible on the Internet. The Missouri Botanical Garden is participating in this project with the Oak Spring Library, The New York Botanical Garden Library, and the Brooklyn Botanical Garden. For more than two decades, the Andrew W. Mellon Foundation has generously supported the Missouri Botanical Garden's research programs around the world.

DRY GARDENS

By Ben Chu

VISITORS to our Japanese Garden, *Seiwa-en* — "garden of pure, clear harmony and peace" — often ask why the area with stones, raked white gravel and few, if any, plants, is called a garden. This unique style of garden is called a dry garden, or *karesansui*. Designed centuries ago as a place of meditation, dry gardens are meant to be looked upon but never entered. They consist of three basic components — stone, gravel, and plants.

From primitive times, stones have been the foundation of Japanese gardens, serving as residences to the deities or appreciated for their intrinsic beauty and character. Stones can convey a multitude of meanings, depending on the designer's intent and the viewer's interpretation. They can suggest abstractions of nature or symbolize Zen Buddhists concepts.

Used in a dry landscape, stones can suggest waterfalls, mountains and islands or even animals. A three-stone composition might suggest the Buddhist trinity of wisdom, mercy and compassion; five stones may suggest the five elements: earth, wind, fire, water and sky. Seven stones can represent the seven gods of good fortune. Though stone arrangements might appear random, their placement is carefully premeditated. The fundamental aim in the art of stone composition is to strike harmony in the landscape and create a pleasing contrast of horizontal and vertical masses.

Expanses of raked gravel are used in the dry landscape to add an element of contrast and balance to the stone work and to suggest elements of nature. Always changing because of the effects of wind and rain, dry gardens require constant smoothing and raking. Gravel's fluidity expresses the concept of the changeability of life. This apparent death and rebirth of the garden, in itself, suggests the continuous cycle of nature.

Gravel is equally important to the Japanese garden as a representation of water. Japan is an island nation whose existence depends on the surrounding sea. Because of this dependence, the Japanese have developed a reverence for water. Japanese garden art has always incorporated water into the landscape, from the early waterfalls, streams and ponds on the

At left: O Sekitei dry garden at the south end of the Japanese garden lake.

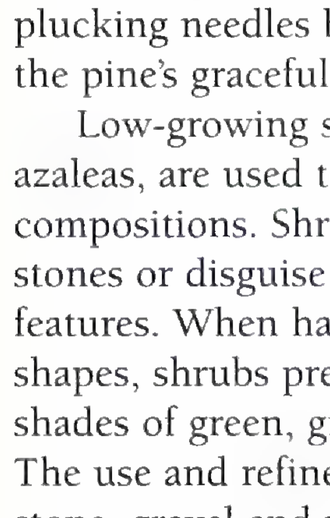
nobles' expansive estates to its representation in the dry landscapes.

Gravel patterns, or samon, are used to suggest varying forms of water: a calm sea, a swift-flowing rapid or a trickle from a shallow stream. Parallel lines suggest ripples in the ocean or the flow of a stream. Scalloped lines represent waves or the meanderings of a river. Concentric circles symbolize a whirlpool. Depending upon the pattern used, a sense of movement is introduced into an otherwise static environment. White gravel predominates in dry gardens, though color may be used. White is preferred for its ability to reflect the light and shadow of the day and the varying exposures of the seasons.

"Spirit in Stone" is the theme of the Japanese Festival on Labor Day Weekend.

Although many early dry gardens are devoid of plants, their use has become important in rounding out the total composition. Plants are viewed as design elements to be appreciated as part of the overall scene.Well-pruned trees are used to suggest mature plants growing along windswept shorelines. Pines are particularly suitable for this effect because their branches are easily manipulated and shaped to simulate age and weathering. Judicious and meticulous pruning and plucking needles by hand exposes and accentuates the pine's graceful form.

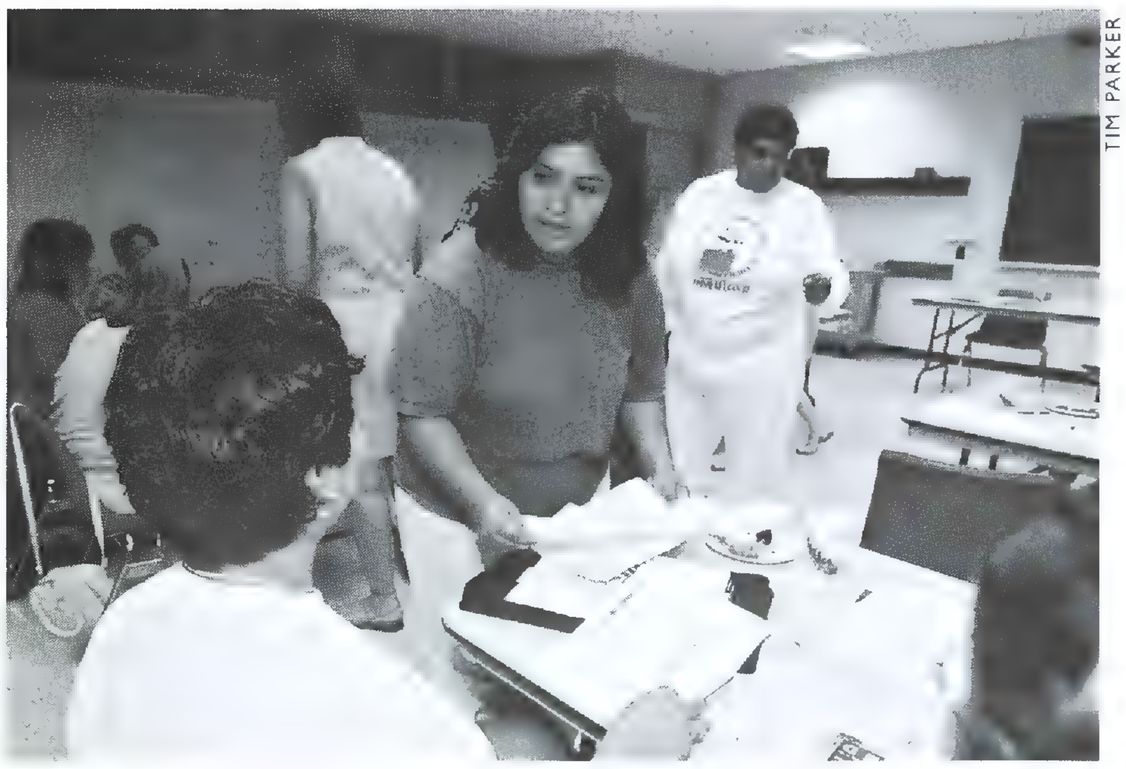
Low-growing shrubs, such as yews, boxwoods or azaleas, are used to complement the stone compositions. Shrubs may act as substitutes for stones or disguise a stone's blemishes or distracting features. When hand pruned into hemispherical shapes, shrubs present rounded masses of varying shades of green, giving the appearance of green hills. The use and refinement of the basic elements — stone, gravel and plants — has created a garden style unparalleled in the Western world. Through many centuries, the dry garden has evolved into a fine work of art and a place for contemplation and meditation — a place for one to see not only with the eyes, but also with the mind.



Ben Chu is the horticulturist who has been responsible for Seiwa-en, our Japanese garden, for the past 14 years. In September, 1999, he traveled to Kyoto, Japan, for an intensive two-week seminar offered to students from abroad by the Research Center for Japanese Garden Art. Chu called it "one of the outstanding experiences of my career."

New Horticulture Specialist at Kemper Center

UNIVERSITY OF MISSOURI Outreach and Extension appointed Anne Gachuhi as horticulture specialist at the William T. Kemper Center for Home Gardening in April. She co-manages educational outreach and the St. Louis Master Gardener program at the Garden. A native of Kenya, Ms. Gachuhi received a master of science degree in horticulture from Wageningen Agriculture University, Holland. She earned her bachelor of science degree in horticulture and a diploma in horticulture from Egerton University, Kenya. Ms. Gachuhi served in Kenya as an extension coordinator in Nairobi, a farm manager for Industrial Farms Inc., and a lecturer at Egerton University.



TIM PARKER

Toni Schaide (center) is shown assisting with a workshop for teachers from St. Louis Public Schools.

Education Division News

Exchange Program with South Africa

ANTONIA SHAIDE, outreach horticulturist at Kirstenbosch Botanic Garden in Cape Town, South Africa, spent three months at the Missouri Botanical Garden this summer, working with the Education Division as part of an exchange program between the Garden and Kirstenbosch. The Garden will send a staff member to Cape Town next year.

Toni coordinates the outreach greening program at Kirstenbosch, one of eight botanical gardens in South Africa, where she works with outlying townships to establish greening projects. She currently works with 24 school garden projects, teaching communities about the native plants of their country.

Gift Planning

Profile

Robert Schaefer

AS a native of East St. Louis and current resident of Fairview Heights, Robert Schaefer has always taken a profound interest in the cultural life of the greater St. Louis area in general and the Garden in particular. From his visits to the Garden as a child to his nearly 20 years of membership, Mr. Schaefer has a commitment to the Garden's mission and has taken this affinity one step further by creating a bequest to the Garden in his will.

Mr. Schaefer appreciates the way science, display, and history all play important roles at the Garden today and in our vision for the future. "Through my bequest, I can make a contribution toward ensuring the continuation of the Garden's mission in these areas," he said.

The role of education is especially important to Mr. Schaefer, who said, "I continue to be impressed by the quality of the Garden's programs." He attends many of the Garden's special events and Members' Days and, as a dedicated amateur photographer, he also spends a great deal of time in the Garden trying to capture just that "perfect" shot.

Combining these events with his busy travel schedule, however, is sometimes a challenge. Since his retirement from 28 years as a chemical engineer with Monsanto, Mr. Schaefer has traveled all over the world, from the Galapagos to Bhutan. He is active in the St. Louis Camera Club, the Genealogical Society, Sigma Xi Research Society, and the German American Heritage Society. As a board member with the Sister Cities Committee, he helped to establish sister city relationships between German cities and cities in Illinois, including Columbia and Millstadt.

The Heritage Society

Donors like Robert Schaefer who inform us of their bequest intent become members of the Garden's Heritage Society and receive extra benefits, including a newsletter and invitations to special events throughout the year. If you have included the Garden in your estate plans, we hope you will share this information with us. If you would like more information about bequests or other types of gifts, please call Judi Schraer, planned giving officer, (314) 577-9455. Of course, there is no obligation and your wishes for anonymity will be respected.

TIM PARKER

WHITAKER FOUNDATION AT THE FESTIVAL – Representatives from the Whitaker Foundation attended the Jazz Festival concert on July 5, featuring Jeanne Trevor. The Whitaker Jazz Festival is made possible by the generosity of the Whitaker Foundation, which supports the arts in St. Louis to promote our common heritage while celebrating our diversity and encouraging the vitality of the community. Pictured, from left: Laverne Holliday of WSIE 88.7, emcee for the concert series; Laurna Godwin, Don Gallop, Peter Raven, and Mel Brown.

TIM PARKER

ALAADEEN HEADLINES FINALE CONCERT – Ahmad Alaadeen was honored with a reception at the Kemper Center for Home Gardening on July 12. Alaadeen, a leading artist, teacher, and educator from Kansas City, was the featured performer at the finale concert of the Whitaker Jazz Festival. He is shown here with Peter Raven and Brenda Jones, director of communications.

Calendar of Events

Sept. & Oct.

September 1 - October 31

Photography Exhibit: "Fall at the Arboretum"

10 a.m. to 4 p.m. daily, closed on Monday. Bascom House, Shaw Arboretum. Special display by Missouri Nature and Environmental Photographers (MONEP). Free with admission or Garden membership.

September 2 - 4
Saturday - Monday

24th Annual Japanese Festival

Saturday and Sunday: 10 a.m. to 10 p.m. Monday: 10 a.m. to 5 p.m. Labor Day weekend features performances by San Jose Taiko drummers, traditional music, dancing, food, martial arts demonstrations, Japanese marketplace, and family activities. Special event admission: $6 adults, $4.50 seniors 65 and over, $2 members, free to children 12 and under.

September 9 Saturday

Lecture: "History of Botanical Illustration"

11 a.m., Shoenberg Auditorium. Presentation by illustrator Olivia Petrides, whose original botanical plates for the *Peterson Field Guide to Western Trees* are on display in Grigg Lobby until September 29. Petrides and her father, author Dr. George Petrides, will sign copies of their tree guidebooks from noon to 3 p.m. Free with Garden admission or membership.

September 9 & 10
Saturday & Sunday

Gardeners of America Show

Saturday: noon to 5 p.m.
Sunday: 9 a.m. to 5 p.m.
Orthwein Floral Hall. Free with Garden admission or membership.

September 10 Sunday

Chefs in a Garden

6 to 9 p.m. Chefs from some of the area's best known restaurants use herbs and vegetables provided by St. Louis area community gardens to prepare their finest recipes. Participating restaurants include Harvest, Café Campagnard, Almond's, Annie Gunn's, Café Mira, Cardwell's on the Plaza, Companion Bakery, The Crossing, Lorenzo's Trattoria, and Patty Long's 9th Street Abbey. All proceeds benefit Gateway Greening, a non-profit organization that promotes urban gardening in greater St. Louis. $100 per person, tables of eight may be reserved for $1,200. Seating is limited to 250. Call (314) 577-9484 for reservations. Sponsored by Edward Jones and Husch & Eppenberger, LLC

continued on page 12

September 15 Friday MEMBERS' DAY

History and Special Features of Tower Grove Park

11 a.m., Shoenberg Auditorium. Presented by John Karel, director of the Park. Tower Grove Park is the finest example of a city park from the Victorian period remaining in the United States and one of only four urban parks designated as a National Historic Landmark. In the Garden Gate Shop, members receive an extra five percent discount on Missouri Nature Books and Tower Grove Park notecards. Seating is on a first-come, first-served basis.

September 16 Saturday MEMBERS' DAY

Walking Tour of Tower Grove Park

10 a.m., Presented by the Tower Grove Park docents. Meet at the Music Stand in the Park. Reservations are required: call (314) 577-9500 by August 31.

October 18 Wednesday MEMBERS' DAY

Bulb Gardening

11 a.m., Shoenberg Auditorium. Get expert advice and tips on bulb gardening from Jason Delaney, the horticulturist responsible for the Garden's bulb displays. Jason will offer wonderful ideas for creating your own unique bulb garden design. In the Garden Gate Shop, members receive an extra five percent discount on bulbs, bulb books, and bulb tools and accessories. Seating is on a first-come, first-served basis.

Members' Days are free, for Garden members and their guests. Receive free tram rides, extra discounts in the Garden Gate Shop, and ten percent off in the Garden Café.

Sept. & Oct. Events

September 16 Saturday **Prairie Day**

10 a.m. to 4 p.m. at Shaw Arboretum in Gray Summit, Missouri. A celebration of Missouri's natural heritage, co-sponsored with the Missouri Department of Conservation. Hike the 100-acre tallgrass prairie and shop for native wildflower seeds and plants. See live bison, draft horses, insects, reptiles, amphibians, and song birds, plus demonstrations of traditional crafts by a flint knapper, spinner, weavers, artisans and living history characters. Enjoy musicians, a storyteller, and traditional children's games, plus homemade baked goods, buffalo burgers, old fashioned root beer and kettle corn. Admission is free, and donations for parking are accepted.

September 16 Saturday

continued from page 11

Garden StoryTime

11 a.m., Garden Gate Shop book department. Listen to a story and receive a free gift to plant at home. For children ages 4 to 10. Parents and guardians are welcome to attend, and children under 4 must be accompanied by an adult. All children's books are an additional 10% off for those attending StoryTime. Free with Garden admission or membership.

September 21 Thursday

Lecture: "Exploration in the Chinese Himalayas"

7 p.m., Beaumont Room. The North American Rock Garden Society presents a slide lecture by Steve Hootman, co-executive director and curator at the Rhododendron Species Foundation near Seattle. Free.

September 22 — November 13

Exhibit: "Pole to Pole"

9 a.m. to 5 p.m., Monsanto Hall. Eighty-nine photographs of the magnificent scenery of the Arctic and Antarctic taken by Donald M. Robinson during four adventures to the poles, from the collection of the Southern Alleghenies Museum of Art. Free with Garden admission or membership.

September 23 & 24 Saturday & Sunday

Dahlia Society Show

Saturday: noon to 5 p.m.
Sunday: 9 a.m. to 5 p.m.
Orthwein Floral Hall.
Presented by the Greater St. Louis Dahlia Society. Free with Garden admission or membership.

September 23 - October 29 Saturdays & Sundays

Wilderness Wagon Tours

Noon to 3 p.m., weekends only, Shaw Arboretum. Narrated tours leave from the Visitor Center on the hour. $1 per person plus admission or Garden membership.

September 29 Friday

Rose Society Lecture

7 p.m., Beaumont Room. Slide lecture by Michael Marriott, expert on David Austin English roses. Presented by the Rose Society of Greater St. Louis. Free.

September 30 Saturday

"Rhapsody in Bloom"

10 a.m. to 3 p.m. at several locations throughout the Garden. Classical music and contemporary dance, presented by KFUO-FM and the Garden. Free with Garden admission or membership.

October 11 Wednesday

4th Annual Conservation Forum

5 to 10 p.m., Ridgway Center. Presented by the International Center for Tropical Ecology, the Missouri Botanical Garden, the Saint Louis Zoo, and the Missouri Chapter of the Nature Conservancy. Keynote speakers: Dr. Peter H. Raven and Dr. Sharon Matola, director, Belize Zoo. $7.50 per person. Box suppers available by advance reservation, $7.50 each. Call (314) 516-6203 for tickets and supper reservations.

October 18 Wednesday

Prairie Restoration Workshop with Neil Diboll

10 a.m. to 2 p.m., Shaw Arboretum. Join Neil Diboll, an internationally recognized

Fall Plant & Bulb Sale

20% Off for Members – All 5 days

- SEPT. 13 WEDNESDAY
  "FIRST CHOICE" MEMBERS' PREVIEW
  3 p.m. to 7:00 p.m. *St. Louis Master Gardeners will answer questions.*
- SEPT. 14 THURSDAY
  MEMBERS' PREVIEW DAY
  9 a.m. to 6 p.m.
- SEPT. 15 FRIDAY
  Sale opens to public: 9 a.m. to 6 p.m.
- SEPT. 16 & 17 SATURDAY & SUNDAY
  9 a.m. to 5 p.m. daily

lecturer, nurseryman, and prairie restorationist, who will discuss and demonstrate planning and planting for large and small prairie projects. $37 per person includes box lunch. Call (636) 451-3512 for reservations. Limited to 30 participants.

October 18 Wednesday

Lecture: "Transcending the Garden: The American Prairie Experience."

6 to 6:30 p.m., reception and cash bar. 6:45 p.m. lecture, Shoenberg Auditorium. Neil Diboll will speak on the prairie restoration movement in the Midwest and how it has shaped an American gardening style. Call (636) 451-3512 for reservations, $6 per person in advance or at the door.

October 21 Saturday

Garden StoryTime

11 a.m., Garden Gate Shop. Join Rosie the storyteller for funny and scary pumpkin tales and receive a free gift to decorate at home. See September 16 for details.

October 28 & 29
Saturday & Sunday

Lily Society Fall Bulb Sale

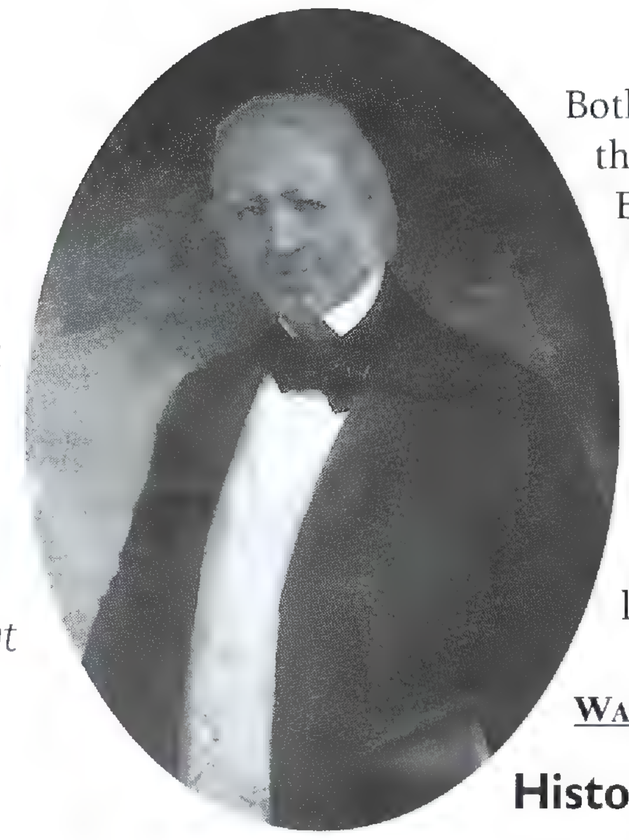
9 a.m. to 5 p.m. daily, Beaumont Room. Presented by the Mid-America Regional Lily Society (MARLS). Free with Garden admission or membership.

October 28 & 29
Saturday & Sunday

Gesneriad Society Show & Sale

9 a.m. to 5 p.m. daily, Orthwein Floral Hall. Display of African violets and more by the Gateway West Gesneriad Society. Free with Garden admission or membership.

Henry Shaw 200th Birthday Celebration



PANEL DISCUSSION SERIES

"Henry Shaw in His Times and Beyond"

Scholars from across the nation will present the most comprehensive public review ever undertaken of 19th century St. Louis, a vital crossroads of American culture. All programs begin at 7 p.m. in Shoenberg Auditorium. Free.

September 19 Tuesday

"Henry Shaw: Portrait of an Extraordiary Life"
With Dr. Marshall R. Crosby.

September 26 Tuesday

"Getting Along in Henry Shaw's St. Louis: Immigration, Race and Politics"
With Dr. Walter Kamphoefner, Dr. Antonio Holland, and Dr. Kenneth Winn,.

October 3 Tuesday

"Getting Ahead in Henry Shaw's St. Louis: Business, Education and Research"
With Dr. James Neal Primm, Dr. William Reese, and Michael Long.

October 10 Tuesday

"Cultural Life in Henry Shaw's St. Louis: Architecture, Theatre and Literature"
With Esley Hamilton, Professor Louis Gerteis, and Lee Sandweiss.

October 24 Tuesday

"St. Louis Facing Two Centuries: From Henry Shaw's Time to Our Own"
With Dr. Robert Archibald, moderator, Dr. Malaika Horne, Dr. Peter H. Raven, Dr. Eric Sandweiss, and Dr. Virginia V. Weldon.

LECTURES & BOOKSIGNINGS

October 26 Thursday

Dr. Paul R. Ehrlich
7 p.m., The Monsanto Center, 4500 Shaw. The renowned evolutionary biologist will discuss his new book, *Human Natures: Genes, Cultures, and the Human Prospect.* Booksigning follows the lecture.

October 29 Sunday

Dr. Daniel B. Botkin
4 p.m., Shoenberg Auditorium. Daniel B. Botkin is research professor in the Department of Ecology, Evolution, and Marine Biology at the University of California, Santa Barbara. He will discuss his new book, *No Man's Garden: Thoreau and a New Vision for Civilization and Nature.* Booksigning follows the lecture.

WALKING TOURS

Historic Neighborhoods

Guided tours of the historic neighborhoods near the Garden will last about two hours, rain or shine. Each tour starts at 10 a.m. Please call (314) 577-0282 for information and reservations. $2.50 per person.

September 16 Saturday
Tower Grove South

September 23 Saturday
Compton Heights

October 14 Saturday
Flora Place

October 21 Saturday
Grand Avenue

OTHER WALKING TOURS – THROUGH SEPTEMBER 30

The Garden's Victorian Areas

Wednesday and Saturday, 10 a.m., leave from Ridgway Center ticket counter. Walking tours last about an hour and include visits to Tower Grove House, the Kresko Family Victorian Garden, the Victorian Maze and the Piper Observatory. No reservations required. Free with Garden admission or membership.

The Garden and Tower Grove Park

A combined tour of the Garden and Tower Grove Park is offered to groups by reservation only, $15 per person. Tours last about two and a half hours and include a tram ride and box lunch. Includes the tour of the Garden's Victorian areas, above, followed by lunch in the Park and a tour led by Park docents. For reservations and information, call (314) 865-2394.

See the World – at Home!

9th Annual Best of Missouri Market

October 7 & 8 – Saturday & Sunday – 9 a.m. to 5 p.m.

Market Admission (includes Garden admission): $2 members; $5 adults; $3 seniors 65 and over; children 12 and under free.

Sponsors: Bank of America, Coca-Cola, Commerce Bank, The Home Depot, KMOX, Clifford Willard Gaylord Foundation, Ralston Purina Company, St. Louis County Farm Bureau, *AgriMissouri*

Crafts

- Handwoven Baskets
- Willow Furniture
- Primitive Folk Art
- Handmade Soaps
- Clay animal flutes
- Fountains • Candles
- Blown Glass • Quilts
- Jewelry • Pottery
- Garden sculptures
- Scrimshaw • Plants

Food Court

Smoked Sausage, Grilled Chicken, Pork Sandwiches, Cookies, Roasted Nuts

Food and Produce

Candies, Cider, Fruit, Homemade Pies, Meats, Mushrooms, Preserves, Relishes, Salad Dressings, Sauces & Salsas, Wines and much more!

Entertainment

(presented by Arts and Education)

Saturday

- *Memorial Lancers Drum & Bugle Corps – Noon*
- *Normandy Jr. High Jazz Ensemble – 2 p.m.*

Sunday

- *Charis, St. Louis Women's Chorus – 2 p.m.*

Cooking Demonstrations

Saturday, 11 a.m. & 1 p.m. – Straub's

Kids' Corner

9 a.m. to 5 p.m.

Pumpkin decorating, cow milking, jewelry making, Mizzou Barnyard, Humane Society of Missouri, The Home Depot Kids' Workshop, apple cider making. Cider, root beer, kettle korn.

Hiccup Productions

Saturday – 1:30 p.m.
Sunday – 2:30 p.m.

Face Painting

Saturday – 11 a.m. to 1 p.m.
Sunday – Noon to 2 p.m.

Clydesdale

Saturday – Noon to 2 p.m.

In the Shop

Meet authors of Missouri guidebooks:

Saturday

9 a.m. to 5 p.m. – Brent Dufur
10 a.m. to 2 p.m. – Judy Oetting
Noon to 2 p.m. – Carol Greene

Sunday

Noon to 2 p.m. – Judy Oetting

Entrances

Enter at Spink Pavilion on Tower Grove Avenue or at the main entrance on Shaw Boulevard, where there will be direct access to the vendors' area from the parking lot. Additional parking will be available at Mullanphy School at 4221 Shaw and in Tower Grove Park. Shuttle runs continuously between the Park and the Garden. For more convenient parking, arrange a car pool or use MetroLink and the Garden Express shuttle.

ALSO October 7 & 8
10 a.m. to 5 p.m.

8th Annual Historic Shaw Art Fair

Artists from across the United States compete for prizes in painting, drawing, sculpture, photography, ceramics, printmaking, textiles, glass, wood, jewelry, and more. Presented by the Shaw Neighborhood Improvement Association on historic Flora Place across the street from the Garden. Admission: $3 adults, free to children 14 and under.

Members

Congratulations to "A Victorian Summer Soirée"

Henry Shaw was present at Tower Grove House for an elegant evening in honor of the 200th anniversary of his birth. The party on July 21 featured performances by artists from Opera Theatre of St. Louis. Our appreciation goes to the committee and to the May Department Stores Company and its Famous-Barr and Lord & Taylor Divisions for their sponsorship of the birthday weekend events.

TIM PARKER

Shown at the Victorian Summer Soirée with Henry Shaw are (from left): Sue Oertli and Carol Gaskin, co-chairmen, and Jane Tschudy, honorary chairman.

Young Friends Present "A Bloomin' Happy Hour!"

On Friday, September 22, 2000, the Young Friends of the Missouri Botanical Garden join with Keystone and Edward Jones to present a happy hour at the Kemper Center from 5:30 to 8:30 p.m. The gathering is sponsored by Anheuser-Busch, Edward Jones, and Hereford Printing and features music by Playtyme Review. Tickets are $15 per person in advance or $20 at the door. Please call (314) 577-9500 by September 18 for reservations.

Save the Date – Thursday, November 9

"A Garden of Gems"

You are cordially invited to a lovely evening featuring beautiful jewelry creations, an exquisite trunk showing of Hidalgo, drawings for jewelry valued at $3,000 and $1,000, cocktails and hors d'oeuvres. All proceeds benefit the "GEMS" program at the Garden, Great Explorations in Math and Science. Sponsored by Antoinette's Jewelry, 9793 Clayton Road, and the Missouri Botanical Garden. Tickets start at $30 per person. Please call for reservations by November 6, (314) 577-9500.

MISSOURI BOTANICAL GARDEN ARCHIVES

In Memoriam

Alfred Saxdal

Alfred Saxdal, former rosarian and superintendent of grounds from 1963 to 1977, died July 15 at age 90. He was responsible for restoring the Gladney Rose Garden, developing the Anne L. Lehmann Rose Garden, and establishing the All-American Rose Selection test garden.

Born in Ikast, Denmark, in 1909, Mr. Saxdal immigrated to the United States at age 16. Before joining the staff at the Garden, he and his wife Priscilla owned Saxdal's Nursery on Lindbergh for 18 years. After his retirement, he continued to tend the roses at the Garden as a volunteer for many years. Mrs. Saxdal also served as a Garden staff member and volunteer.

Peter Raven said, "Al was an expert of superb skills who contributed greatly to the development of our beautiful rose gardens. He was always a pleasure to work with, and he will long be missed at the Garden."

TIM PARKER

Trash Into Treasures – Ashley Marciano, a fifth grader at Carr Lane Elementary School, won the grand prize in the third annual Recycled Art Contest sponsored by the Recycling Office of the City of St. Louis. Students in public and private schools in the city were invited to create sculptures of endangered species from recovered materials that might otherwise end up in a landfill. The awards ceremony was held at the City Museum on April 28, 2000. Ashley's winning sculpture, "A Whale of a Problem," was on display in July and August at the William T. Kemper Center for Home Gardening. Shown with the sculpture, from left: Rebecca Tannlund, recycling program director; Ashley's mother, Jill Marciano; Ashley; her father, Matt Marciano; and Jonathan Kleinbard, deputy director.

Report from Madagascar

Into the Unknown

The Missouri Botanical Garden's research program makes a priority of documenting the plant species of poorly known regions, as a basis for ensuring their long-term conservation. With assistance from the National Geographical Society and our Malagasy partners, the Garden is conducting expeditions to Tsaratanana massif on Madagascar to collect herbarium specimens and describe the area's remarkable vegetation.

The Garden's research program has been active on Madagascar since 1973. This island nation off the east coast of Africa is one of the most biologically significant regions of the world — at least three-quarters of Madagascar's 10,000-12,000 species are found nowhere else on earth, and the majority are endangered.

By Chris Birkinshaw, Ph.D.

THERE ARE no longer many places in Madagascar where one can stand and see rain forest stretching out as far as the eye can see. In the northern part of the island, the hill of Belinta ("many leaches"), is one such spot.

We are on our way to Tsaratanana massif, the greatest of Madagascar's mountains, to conduct a botanical inventory, and after three days of hard trekking, our objective is close. This forest is one of the most isolated and pristine in Madagascar. With the exception of the summit area, it has seldom been visited by botanists.

The paucity of botanical information from Tsaratanana contrasts with its tremendous botanical importance. Its wide range of altitudes, bioclimates, and vegetation types is reflected in its diverse flora, and on its isolated peaks unique species have evolved.

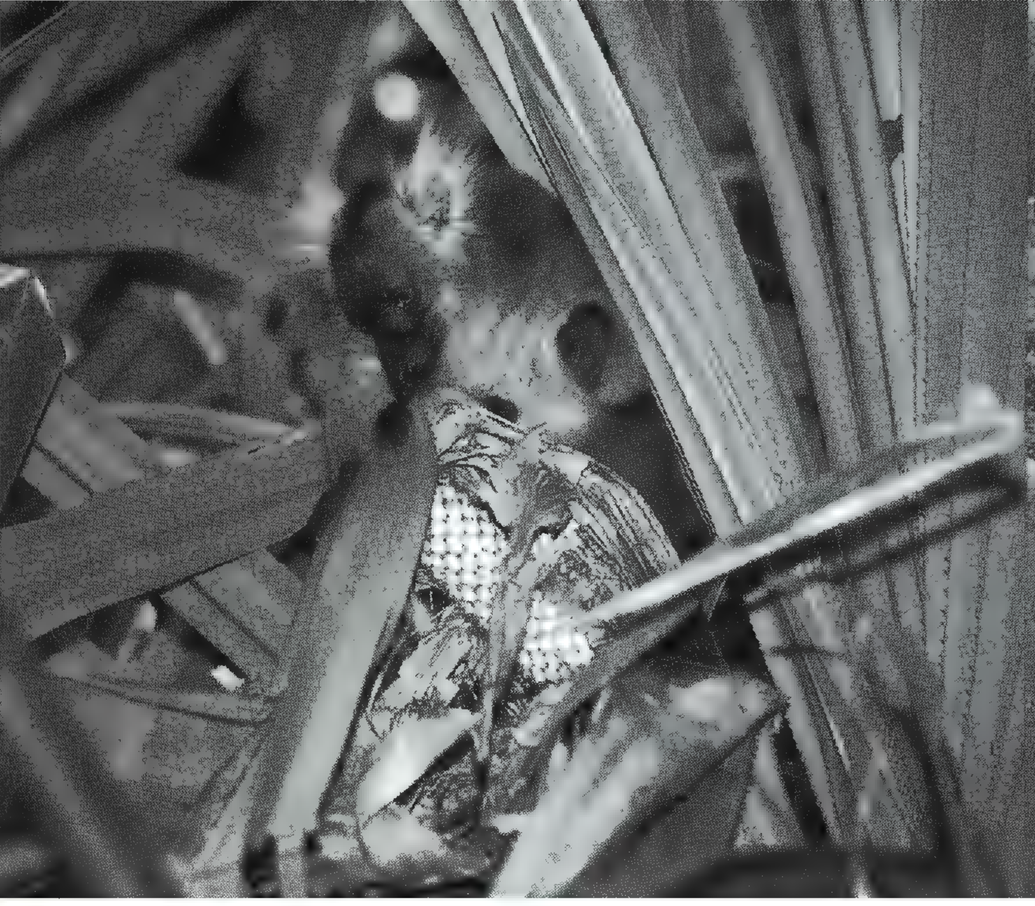
At Mandrizavona ("where clouds gather"), the last village before the massif, almost no adults are to be seen — the rice is ripening, and everyone is in the fields protecting this all-important crop from voracious wild pigs. A few women and many children gather around us. Visitors, particularly such strange-looking ones with sacks of odd equipment, are rare here. I am the first European the children have ever seen. Some start to cry, frightened as much by my glasses as my color. "What is this animal?" one sobbing child asks his mother.

Our team includes a Malagasy doctor, who keeps us in good health and also has enough medicine to treat the villagers. The news spreads quickly and soon a line has formed. Life is tough here. Illness is seemingly ubiquitous, the diet of rice and beans is monotonous, amusements are few, and schooling is non-existent. And life is getting tougher: convicts and other outlaws have established cannabis plots within the forests on the massif. These men are dangerous, and accounts of their murderous disputes are a common subject for discussion in the village.

Our proposed site for plant collecting lies in the heart of the cannabis cultivators' territory. Reluctantly we decide to collect elsewhere, and choose the Antsaharatsy ("bad river") River Valley. It is not where we wanted to go, but it is safe, interesting, and never previously visited by botanists.

Tsaratanana is home to frisky lemurs, tiny jewel-like orchids, and spectacular vegetation little known to science. Botanical exploration and research provide fundamental scientific data that can help preserve its treasures.

Close to the Antsaharatsy River, the trees are high and the collection of herbarium specimens is hard work, requiring the use of "French tree climbers": toothed metal claws that strap onto the feet and allow one to creep up trunks carrying a 12-meter tree pruner. The area is the



habitat of the bizarre *Uapaca* tree, whose trunk is repeatedly divided so that its base at ground level forms a delicate fan of fine root-like structures.

Lemurs are found here, although they are hunted by local people, and trees with fleshy, dull-coloured thick-husked fruits, which are distributed by lemurs, are frequent. Lemur-pollinated plants such Traveller's Palm and *Parkia* are also seen, characterised by their large robust inflorescenses that can withstand rough handling by the primates.

Kneeling down to collect mosses from boulders near a waterfall, I am charmed to find minute species of *Streptocarpus, Impatiens* and *Begonia*, no bigger than the mosses themselves. They are adapted to complete their life cycle during the dry season, when the rocks are exposed above the water. In contrast, cliffs nearby support another *Begonia* species with leaves as big as an umbrella.

At higher altitudes the canopy of the forest becomes lower, and everything is clothed in thick mats of moss, epiphytic ferns and orchids. Here, collection is just a matter of using a pair of clippers. At head height, supported like a rare jewel on a cushion of golden-green moss, a tiny *Aerangis* orchid trails long sprays of perfect, pure white, star-like blooms.

The pleasure of fieldwork is in seeing beautiful plants such as this orchid in their natural setting. Such finds more than balance the sweaty exertion, the leeches, the blood-sucking flies that laugh at all known repellents, the discomforts of camping, and the real or imagined dangers. I am already looking forward to our next trip, when we will aim for Maromokotro ("many *Strychnos* plants"), the summit of Tsaratanana and indeed of Madagascar itself.

Christopher R. Birkinshaw earned his Ph.D. from University College, London, in 1995 and has been associated with the Garden's Research Division since 1996. He is currently the Garden's resident botanist in Madagascar.

Opposite page: Mandrizavona, "where clouds gather."

This page, far left: A black lemur eating fruits of the screw pine, *Pandanus*.

Left: Many rivers, some with crocodiles, must be crossed to reach the massif.

Residents of Vatomandry distribute rice provided by disaster relief.

Madagascar Recovers from Cyclones

Last February and March, the east coast of Madagascar was devastated by two powerful tropical storms that killed at least 150 people and left more than 600,000 without food and shelter. Armand Randrianasolo of the Garden's Research Division is from the town of Vatomandry, which lies right on the Indian Ocean. Within a week, Garden staff contributed more than $3,600. The Garden matched the donation and dispatched the funds to Vatomandry to provide direct and immediate relief to the town. Contributions to date are over $7,500.

Communication with Vatomandry remains difficult, but the Garden has received the photograph above and the following message:

"We profoundly appreciated your participation in helping the population of Vatomandry, victims of disaster caused by two successive cyclones, especially Cyclone Eline, which hit very hard the southeast center of our region and vicinity. We thank you very much for [your assistance] in the process of rebuilding our devastated town.... Our sincere and very best wishes, [signed] Mr. Salez Narby Adrien, Mayor of Vatomandry, and Mr. Alfred Rabenaivo, Town Council."

Research

TIM PARKER

Three scientists from Xishuangbanna are currently visiting the Garden for several months for training in herbarium management, information systems, and management of living collections. From left: Yang Qing, Hu Huabin, Zhu Guanghua, and Wang Hong.

A New Orchid Conservation Center in China

XISHUANGBANNA, the only tropical forest in mainland China, is located in southern Yunnan Province, a region of extraordinary biological diversity and importance renowned for the breathtaking beauty of its virgin forests and mountains. In January, the Garden signed an agreement with Xishuangbanna Tropical Botanical Garden of the Chinese Academy of Sciences to collaborate on significant programs in tropical Yunnan.

A new Sino-American Orchid Conservation Center has been established at Xishuangbanna to preserve and study the region's 1,000 species of orchids. Dr. Zhu Guanghua of the Garden's Research Division was named director of the Center, and Dr. Peter H. Raven and Prof. Xu Zaifu of Xishuangbanna serve as honorary directors.

Botanists from the Garden and Xishuangbanna will cooperate to raise funds for an inventory of the plant species of the region, including construction of a new herbarium and production of a comprehensive database. The project will provide a solid scientific basis for future conservation and development in the region. Zhu Guanghua will coordinate the project for the Garden.

Raven Receives Honors

Golden Plate Award 2000 — A "Salute to Excellence"

THE AMERICAN ACADEMY OF ACHIEVEMENT inducted Peter H. Raven in June as one of the leaders who have shaped the 20th century. Raven was among 30 distinguished honorees to receive the prestigious Golden Plate Award and meet with 400 of the nation's most outstanding high school honor students during the Academy's 39th annual Salute to Excellence in June.

Previous awardees include General Colin Powell, Bill Gates, Steven Spielberg, Coretta Scott King, Jimmy Carter, Dr. Stephen Jay Gould, Elie Wiesel, Joyce Carol Oates, and Barbra Streisand. The Academy, founded in 1961, sponsors The Achievement Television Network and the Museum of the American Dream, available online at www.achievement.org. The interactive museum features video interviews with Academy members, preserving their experiences and achievements as an inspiration for future generations.

Victoria H. "Torrey" Wolff, daughter of Mr. and Mrs. Frank P. Wolff Jr. of St. Louis, was among the students invited to attend the Salute to Excellence this year. Torrey, a National Merit Scholar and a Missouri Presidential Scholar nominee, graduated with honors this year from John Burroughs School. Her father is counsel to the Garden Board of Trustees.

UCLA Alumnus of the Year

Peter Raven received the 2000 Alumni Association Award in Professional Achievement from the University of California, Los Angeles. The awards program, established in 1946, honors outstanding alumni, faculty, students and friends of the University. Raven received his Ph.D. from UCLA in 1960.

Society for Conservation Biology Award

In June, Raven was one of six recipients of the 2000 Distinguished Service Award of the Society for Conservation Biology. The awards are presented on an annual basis to organizations and individuals who have made outstanding contributions to the conservation of biological diversity.

TIM PARKER

THE BOTANICAL ARK – Alan Carle, a horticulturist from Queensland, Australia, visited the Garden in July to confer with staff from the horticulture and research divisions. The Botanical Ark is a natural preserve founded about 20 years ago by Mr. Carle and his wife, where they grow more than 3,000 species of tropical plants of economic value, including some 400 species of rare tropical fruits. A dedicated advocate for conservation and preservation of biological diversity, Mr. Carle welcomes tourism groups. Learn more about The Botanical Ark at www.botanicalark.com.

CORRECTION — In the July/August issue, we referred to Roscoe Misselhorn as a St. Louis artist. Mr. Misselhorn was from Sparta, Illinois, where there is a museum of his work. — *Editor*

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Right: Exquisite earrings and matching pins are cast from actual blooms in the Garden's orchid collection. Available in silver, bronze, and gold vermeil (pictured). Exclusively at the Garden Gate Shop in St. Louis.

Below: Concrete garden furniture can be special ordered in a variety of finishes. Colorful glass fruit looks ripe for the picking all year long.

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PHOTOGRAPHS BY TRENT FOLTZ

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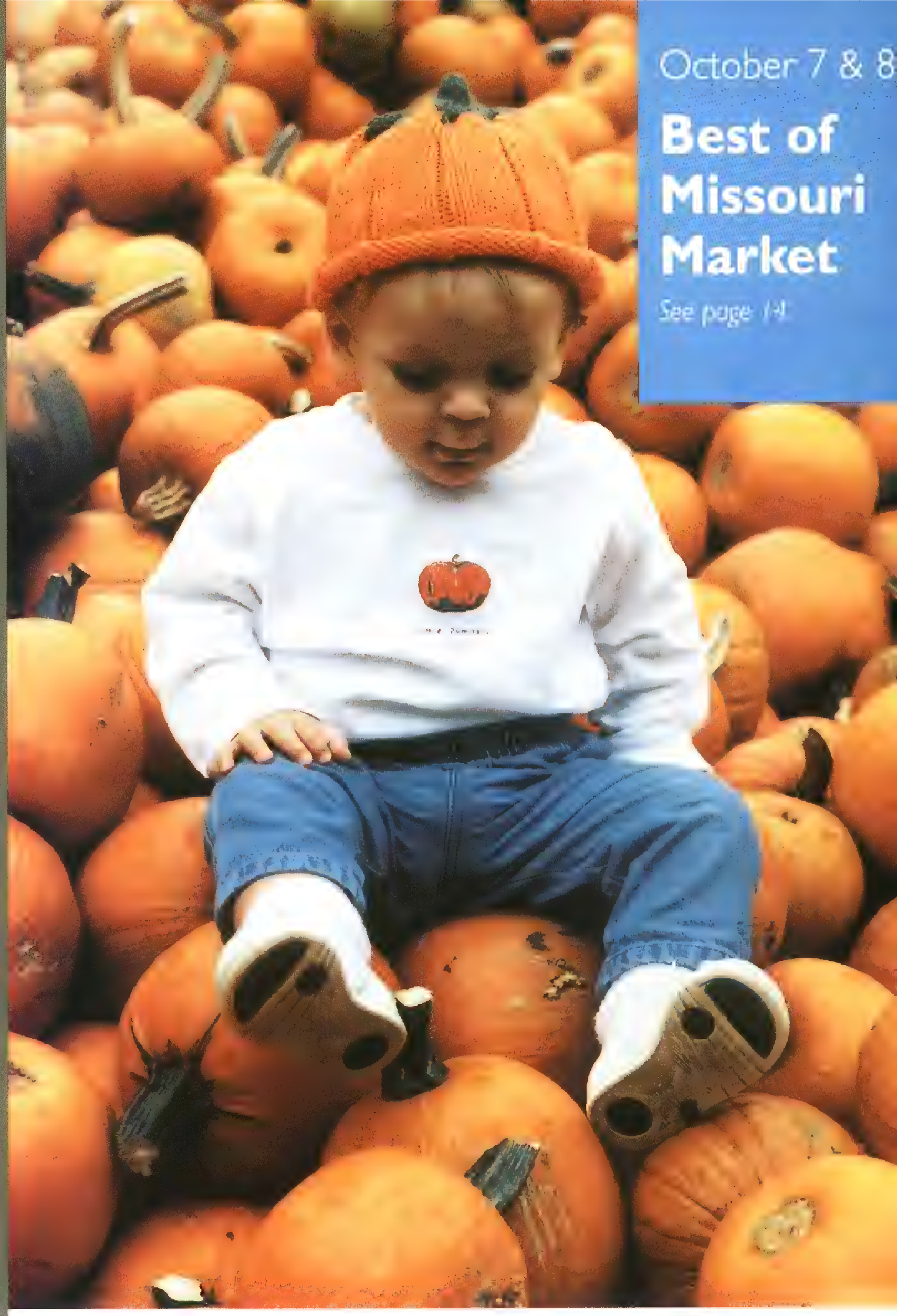

October 7 & 8
Best of Missouri Market

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B U L L E T I

Missouri Botanical Garden

See the World

NOVEMBER / DECEMBER 2000

THE HOLIDAY FLOWER SHOW: "A VICTORIAN HOLIDAY"
NOVEMBER 22 - JANUARY 1, 2001

VOLUME LXXXVIII
NUMBER SIX

Holiday Journeys

Take a magical journey at the Garden with colorful holiday celebrations from many lands and places. See pages 11-14 for details and listings of special events offered exclusively to Garden members.

November 18 – December 31

"Victorian Christmas Ornaments"

November 18: noon to 4 p.m. November 19 to December 31: 10 a.m. to 4 p.m. daily. Antique decorations on display in historic Tower Grove House, Henry Shaw's country home. Regular Garden admission plus $2 for visitors age 13 and over, 50 cents for children ages 6 to 12, free to members and children ages 5 and under. Sponsored by Tower Grove House Historical Committee and Botanicals on the Park. On November 18, visit the Botanicals on the Park holiday demonstration booth in Monsanto Hall from 10 a.m to 3 p.m. and get great ideas on holiday decorations. Purchase your favorite Christopher Radko ornaments too! See page 14 for special opening events.

November 22 – January 1, 2001

Holiday Flower Show: "A Victorian Holiday"

9 a.m. to 5 p.m. daily, Orthwein Floral Hall. Come visit Victorian England! Henry Shaw or Charles Dickens would feel right at home in our opulent Victorian holiday garden filled with thousands of colorful blooming plants. Regular Garden admission plus $2 for adults, $1 for seniors 65 and over, free to members and children under 12. See page 11 for the Members' Preview Party.

November 22 – January 1, 2001

Holiday Wreaths Exhibit

9 a.m. to 5 p.m. daily, Ridgway Center. Wonderful and whimsical decorations by St. Louis florists. See page 11.

December 7 & 8 Thursday & Friday

Carols in the Garden

5 to 9 p.m. Ridgway Center and grounds. An Old World musical tour includes a visit to Santa at Spink Pavilion, roast chestnuts, a hurdy-gurdy man, children's holiday craft workshops, apple cider and cookies, and more. Tickets at the door: see page 12.

MISSOURI BOTANICAL

OCT 3 1 2000

GARDEN LIBRARY

December 7 & 8 Thursday & Friday

Candlelight Tours

4:30 to 8:30 p.m. To celebrate his 200th Birthday, Henry Shaw has bedecked his country home in Victorian splendor. Experience the elegance and romance of a 19th century English Christmas. Reservations are required: see page 12.

December 16 Saturday

Madrigal Dinner

6:30 to 9 p.m., Ridgway Center. Journey to Renaissance England for a festive feast in honor of Henry Shaw's 200th Birthday. Costumed singers and dancers from Jerseyville High School will perform during cocktails and dinner, followed by a 30-minute stage performance. Seating is limited to 200 guests. $75 per person. Early reservations for members; reservations open to the public November 15. Call (314) 577-5125.

December 17 Sunday

Chanukah: Festival of Lights

11 a.m. to 5 p.m., Ridgway Center. Our traditional Jewish holiday celebration includes a Menorah Lighting ceremony, puppet shows, storytellers, musicians, an Israeli Shuk (market), a concert by the Circle of Jewish Music, cookie decorating, and children's craft workshops. Free with Garden admission.

December 30 Saturday

Kwanzaa

11 a.m. to 5 p.m., Ridgway Center. Kwanzaa is a Swahili term which means "first fruits." This contemporary African American holiday celebration is centered around the Feast Table of the harvest. A Kwanzaa Ceremony highlights a day of storytelling, craft and jewelry workshops, African American merchandise vendors, and authentic African drumming and musical performances. Sponsored by AT&T Wireless. Free with Garden admission.

Comment

Missouri Botanical Garden Mission:
To discover and share knowledge about plants and their environment, in order to preserve and enrich life.

THIS IS THE TIME OF YEAR DEDICATED TO THANKS, and I am especially grateful for your unfailing generosity. As I enter my third decade as director, it is clear that the Garden would not be what it is today without the support of its members, volunteers, and donors.

This has been an exciting year - a year in which we celebrated the 200th anniversary of our founder, Henry Shaw, and the 75th anniversary of Shaw Arboretum. It was a year to reexamine our history, including 140 years of service to the community, and shape our agenda for the future. It is visionary. It is risk-taking. It has a solid foundation with the past.

Now, as never before, we need your help to reach our goals. We ask each of you to step forward and contribute to the Henry Shaw Fund, which provides the critical margin of support for our daily operations. We ask for your gift above and beyond your annual membership dues, and I look forward to thanking each of you for your response to our year-end appeal.

We will be making a number of exciting announcements in the coming days, including the Gateway Center for Resource Efficiency as a new division at the Garden. The Center will extend our environmental leadership throughout the St. Louis area and will be based at the EarthWays Home in Grand Center (see pages 16 and 17). It is a demonstrable symbol of our commitment to the City of St. Louis and the local environment.

In future issues of the *Bulletin* we will have news concerning the Arboretum and the neighborhoods adjacent to the Garden, where we are participating with our neighbors in a community-based revitalization plan.

As we begin another joyous holiday season, we hope you will join us for our "Holiday Journeys" celebration. It includes the many wonderful events, some Victorian in character and some reflective of other traditions, including Kwanzaa and Chanukah. We welcome everyone to a magical journey of discovery this holiday season. — *Peter H. Raven, Director*

The Bascom House at Shaw Arboretum

JACK JENNINGS

The 1879 brick house at Shaw Arboretum has been renamed The Bascom House in memory of Joseph and Elizabeth Bascom. Joseph Bascom was a Garden trustee and served on the Arboretum committee. The Bascom House was restored and dedicated in 1995 to serve as a meeting facility, offices, and the location for "People on the Land," a permanent educational exhibit developed in cooperation with the Missouri Department of Conservation. The Bascom House is open to visitors from 10 a.m. to 4 p.m. year-round, closed Mondays.

Mailing Address:
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Post Office Box 299
St. Louis, Missouri 63166-0299

www.mobot.org

Important Phone Numbers:

(314) 577-5100
Development: (314) 577-5120
Patricia Arnold, director
Communications: (314) 577-0254
Brenda Jones, director
Membership: (314) 577-9500
Mary Krchma, manager
Public Relations: (314) 577-5141
Anne Enright Shepherd, manager

Garden Hours:
9 a.m. to 5 p.m. every day except Christmas; 9 a.m. to 8 p.m. Memorial Day through Labor Day. Grounds open 7 a.m. Wed. & Sat.

Shaw Arboretum:
(636) 451-3512 (toll free from St. Louis)

24-Hour Information:
GardenLine – (314) 577-9400
Or call 1-800-642-8842.

24-Hour Gardening Tips:
HortLine – (314) 776-5522
Or see www.mobot.org.

Horticulture Answer Service:
(314) 577-5143
9 a.m. to noon, Mon. – Fri.
Composting/Recycling Hotline:
(314) 577-9555

On the Cover
The Holiday Flower Show is fun for all ages. Back cover: Breakfast with Santa is a popular annual event for members. Photos by Mary Butkus.

Editor
Susan Wooleyhan Caine

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The BULLETIN is sent to every member of the Garden as a benefit of membership. For a contribution of as little as $55 per year, members also are entitled to: free admission to the Garden, Shaw Arboretum, and Tower Grove House; invitations to special events and receptions; announcements of all lectures and classes; discounts in the Garden Gate Shop and course fees; and the opportunity for travel, domestic and abroad, with other members. For information, call (314) 577-5118.

Postmaster: Please send address changes to: Bulletin, Missouri Botanical Garden, P.O. Box 299, St. Louis, MO 63166-0299.

Feeding the koi at the Japanese Garden.

THE HENRY SHAW FUND

Discovering the World of the Garden

AS A GARDEN MEMBER, you already know that every visit is a journey of discovery – a passport to the wonders of the world of plants.

As you trek through the Amazon on a trip to the Climatron® rain forest, or stroll the English countryside and explore the secrets of the Victorian Maze, or travel by tram to the Orient in the Japanese Garden, you discover the beauty of plants and their essential role in human life.

The Henry Shaw Fund is the critical resource that makes this wonderful world possible. Each year, we turn to you, our members, to ask for a charitable contribution beyond your annual membership dues.

By providing essential general operating support, the Henry Shaw Fund makes the crucial difference in maintaining and improving the Garden services we offer you. As a Garden member, you have demonstrated your commitment to this institution, and we continue to depend on your generosity.

Please give to the 2000 Henry Shaw Fund, and enjoy a new magical journey on your next visit to the Garden.

Your gift to the Henry Shaw Fund is a passport to a magical journey.

The Angel Fountain at Tower Grove House.

Gifts & Grants

Charitable Gift Planning

Our Gift to You

Generosity is a hallmark of the holidays, as many of us hurry to make last-minute charitable gifts. At the Garden, we believe in giving you a gift in return. We can help you find the best type of planned gift for your financial situation, one that will benefit you as well as the Garden.

Cash and Matching Gifts

If you itemize your tax deductions, gifts of cash may be fully deductible up to 50 percent of your adjusted gross income. Remember that envelopes must be postmarked by December 31 to qualify for your 2000 tax return. If your company has a matching gift program, your donation will increase at no cost to you. Simply enclose the matching gift form along with your check.

Appreciated Stock

If you are in a position to make a gift of appreciated stock, it almost always has greater tax advantages than a gift of cash. In addition to a tax deduction for the full fair market value of the stock at the time of the gift, you will avoid paying capital gains tax, as long as you have held the stock for more than one year. Gifts of qualified stocks are deductible in amounts up to 30 percent of your adjusted gross income. Excess amounts can generally be used in as many as five future tax years.

Life Insurance

If you own a life insurance policy that you no longer need, you can realize a significant tax deduction simply by designating the Garden as the owner and beneficiary of the policy. Your insurance agent can provide further details.

Year-end giving is, of course, much more than tax brackets and charitable deductions. Your gifts to the Garden help to ensure the crucial margin of excellence in our programs and services. To learn more about the advantages of charitable gift planning, please contact Judi Schraer, planned giving officer, (314) 577-9455, judi.schraer@mobot.org.

Historic Cabins at the Arboretum

The finishing touches are being applied to two cabins currently under construction at the Dana Brown Foundation Overnight Educational Center at Shaw Arboretum. The Center will provide opportunities for in-depth ecological field studies and a chance for children and adults to gain a more profound understanding of the natural world.

When complete, the Center will consist of four log cabins for sleeping and a post-and-beam assembly hall. All of the buildings are restored mid-19th century structures from the region. For more information on the remaining naming opportunites at the Center, please call Patrica Arnold, director of development, at (314) 577-5120.

JECK JENNINGS

Please Fence Us In –

A section of the historic wrought iron fence around Henry Shaw's Mausoleum was flattened in the severe storm of August 10-11. More than 50 trees at the Garden suffered moderate to heavy damage in the storm, hundreds had minor damage, and three mature trees had to be removed. Funds are being sought to replace or refurbish the Mausoleum fence, which dates from the 19th century. For information, please call Patricia Arnold, director of development, at (314) 577-5120.

News of Note

Corporate Partners

Corporate Partners provide outstanding support for the Garden and receive wide recognition for their service to the greater St. Louis community. Corporate members are invited to many special events at the Garden throughout the year.

For more information, please call Rachel Hartmann, corporate / foundation officer, at (314) 577-9513.

We would like to recognize the following corporations who recently joined, renewed, or upgraded their Corporate Partners membership:

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NEW! Shop online at over 100 leading retailers where each purchase benefits the Missouri Botanical Garden — at no extra cost to you!
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Just log on to the Garden's website at www.mobot.org, click on the yellow box "Shop and Benefit the Garden," choose your retailer of choice, and start shopping.
Up to 15% of your purchases will benefit the Garden — at no extra cost to you!

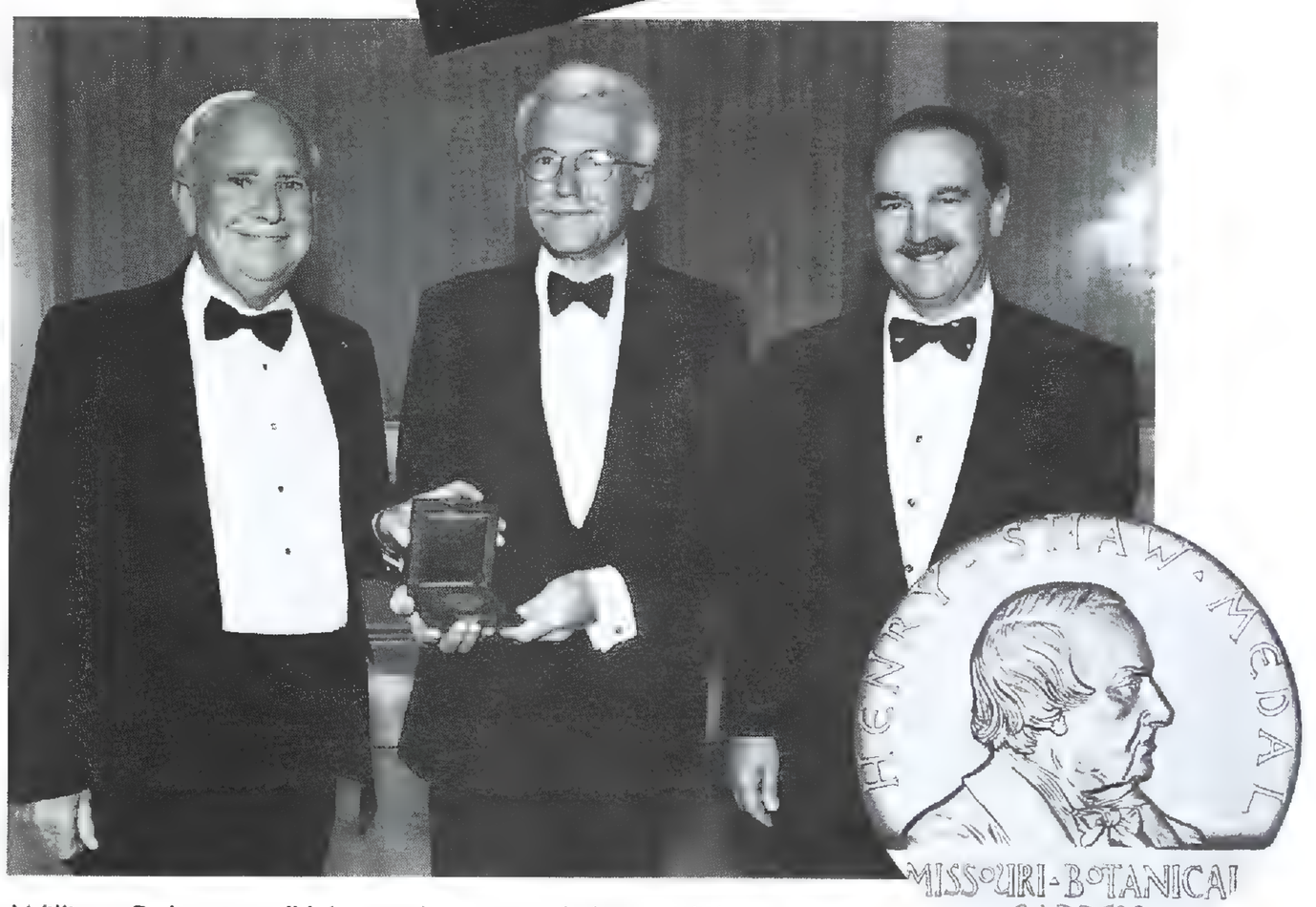
Patricia Arnold Receives CFRE Certification

Patricia Arnold, director of development at the Garden, has been awarded the professional designation of Certified Fund Raising Executive (CFRE). Arnold joins 4,127 professionals around the world who hold this designation. To receive CFRE credentials, individuals must pass a written examination and meet a set of professional standards set by the CFRE Board.

"The CFRE process identifies people with the knowledge, skills, and commitment to perform fund raising duties in an effective, conscientious, ethical and professional manner," said Simone P. Joyaux, ACFRE and chair. The CFRE Professional Certification Program is conducted in cooperation with leading philanthropic associations. The Board is made up of fund raising professionals and members of the public representing the interests of donors.

Arnold joined the Garden's Development Office in 1994 and has served as development director for the past four years.

TIM PARKER



William Robertson IV (center) accepted the medal on Mrs. Mellon's behalf. He is shown at the Henry Shaw Dinner with Peter H. Raven, director, and Stephen F. Brauer, president of the Board of Trustees (right).

2000 Henry Shaw Medal Awarded to Rachel Lambert Mellon

THE HIGHEST AWARD of the Missouri Botanical Garden, the Henry Shaw Medal, was presented to Mrs. Paul Mellon on October 18, 2000, at the annual Henry Shaw Dinner at the Ritz-Carlton. Mr. William Robertson IV, program officer for conservation and the environment at the Andrew W. Mellon Foundation, accepted the medal on Mrs. Mellon's behalf.

Mrs. Mellon was honored for her work as an internationally renowned horticulturist and landscape designer. She recently initiated a major collaborative project to conserve scholarly botanical books and make them available on the Internet.

Chip Tynan with the tropical display at the Kemper Center. Shown here are sugar cane, *Saccharum officinarum*, and elephant ears, *Colocasia esculenta*.

TROPICALS

Surviving Winter

By Chip Tynan

ONE OF THE HOTTEST TRENDS in gardening is combining tropical shrubs with tropical annuals, perennials, and bulbous plants. Visitors to the Garden have enjoyed these colorful displays for the past several years, particularly the Tropical Garden at the Kemper Center for Home Gardening, the Kresko Family Victorian Garden, and the beds surrounding the Piper Observatory. Many local gardeners have been inspired to try growing tropical plants at home.

Many tropicals are costly and difficult to obtain, so it makes sense to save and preserve specimens over the winter. Tropical shrubs tend to get better and better over the years, developing a larger size capable of producing more flowers every summer. Woody plants frequently develop considerable character as their trunks thicken and twist with age.

To paraphrase a popular ad, these are not your father's hibiscus. The list includes a host of familiar plants such as oleanders, hibiscus, lantanas, and passionflowers, but it also can include golden trumpet, *Allamanda* spp., angel's trumpet, *Brugmansia* spp., blue butterfly bush, *Clerodendron ugandense*, pigeon berries, *Duranta* spp., Mexican gold bush, *Galphimia glauca*, Mexican fire bush, *Hamelia patens*, blue potato bush, *Lycianthes rantonnetii*, cape leadwort, *Plumbago auriculata*, glory bush, *Tibouchina urvilleana*, and many other species.

We associate the tropics with lush, year round warmth in steamy surroundings. In reality most tropical shrubs are native to areas subject to recurrent droughts, which trigger periods of dormancy. Dormant periods in nature last for varying lengths of time. During dormancy, plants may shed leaves or stop growing until favorable conditions return. Hard frost is the Achilles heel of tropical plants, but they have an adaptable nature. Take advantage of this by providing a sheltered environment where your tropicals can ride out the winter.

A warm greenhouse, a solarium, or a sunporch is ideal. A sunny windowsill is the next best choice. Many tropicals can be grown as houseplants, provided they are given strong enough light and, if not high humidity, at least a cool location away from sources of hot, dry air.

Gardeners lacking these conditions need not despair. Many tropicals, including virtually all of the woody specimens listed above, can be induced into dormancy for the winter months.

Induce dormancy by storing tropical shrubs in a frost-free location, withholding water, and reducing the amount of available light. An unheated garage with temperatures between 35 and 50 degrees F is ideal. A cold, dark, dry basement that stays between 50 to 55 F is a good alternative.

Under these conditions, most tropicals will shed all

Pilea cadierei

Caladium bicolor

Canna x *generalis* 'Pretoria'

Justicia brandegeana 'Yellow Queen'

Abyssinian banana, *Ensete ventricosum*

PHOTOGRAPHS BY TIM PARKER

or most of their leaves and just sit there until spring. Unless you have to cut some branches to get them through the door, there is no need to prune woodies back until springtime. Plants in containers can be left in their pots indoors all winter.

Dig up plants in the ground and repot them in suitable containers. You can also store them with the root ball inside a plastic trash bag, leaving the bag unsealed to allow good air exchange. Check soil moisture periodically. Soil of bagged plants should not be allowed to become powdery dry. As with potted plants, don't let the soil become so dry it cracks away from the sides of the container.

When watering, do so just a little at a time. If you consistently overwater, dormant plants may rot. They won't need to be moistened as thoroughly, or as often, as in summer. Plants rarely need a sprinkling more than every two to four weeks, and the cooler the conditions, the less water is needed. Dormant plants won't need fertilizer.

Strong light is not essential, but with some light you will be able to overwinter a wider variety of plants and they will retain more of their foliage. Many will continue to bloom well into the winter months. A bank of fluorescent light fixtures hung from the ceiling makes a good, low-cost lighting system which can be left on for 12 to 15 hours per day. For a relatively "automatic" system, hook the lights up to a timing device programmed to turn off during nighttime hours.

Chip Tynan manages the Garden's Horticultural Answer Service and writes a popular weekly column for the St. Louis Post-Dispatch. *He has been on the staff at the Garden since 1986.*

MBG Daylily Association Makes Gift

Each year, the Missouri Botanical Garden Daylily Association makes a major donation to support the work of the Horticulture Division at the Garden. The group raises funds from their annual sale of surplus plants from the daylily displays at the Garden, which they maintain. Shown presenting this year's check are (from left): Jim Cocos, MBG horticulture supervisor; Chick Buehrig and Mirko Bolanovich of the MBG Daylily Association; Dr. Shannon Smith, MBG director of horticulture; Bill Lenz and Marty Meagher of the MBG Daylily Association; and Jason Delaney, MBG horticulturist.

Community

MARY BUTKUS

Celebrating Gateway Greening Day

ON September 16, 2000, the Missouri Botanical Garden welcomed community gardeners to a day of fun, tours, and information. Participants were all active in neighborhood greening projects sponsored by Gateway Greening, Inc., a community service organization with its headquarters at the Garden.

Shown in the demonstration vegetable garden at the Kemper Center for Home Gardening are (from left): Jim Hogan and Bobbie Harrington, community garden leaders; Gwenne Hayes-Stewart, executive director of Gateway Greening; Marvis Meyers, president of the Gateway Greening Board; and Gateway board members Brenda Jones, director of communications at the Garden, and Chip Tynan, manager of the Garden's Horticultural Answer Service.

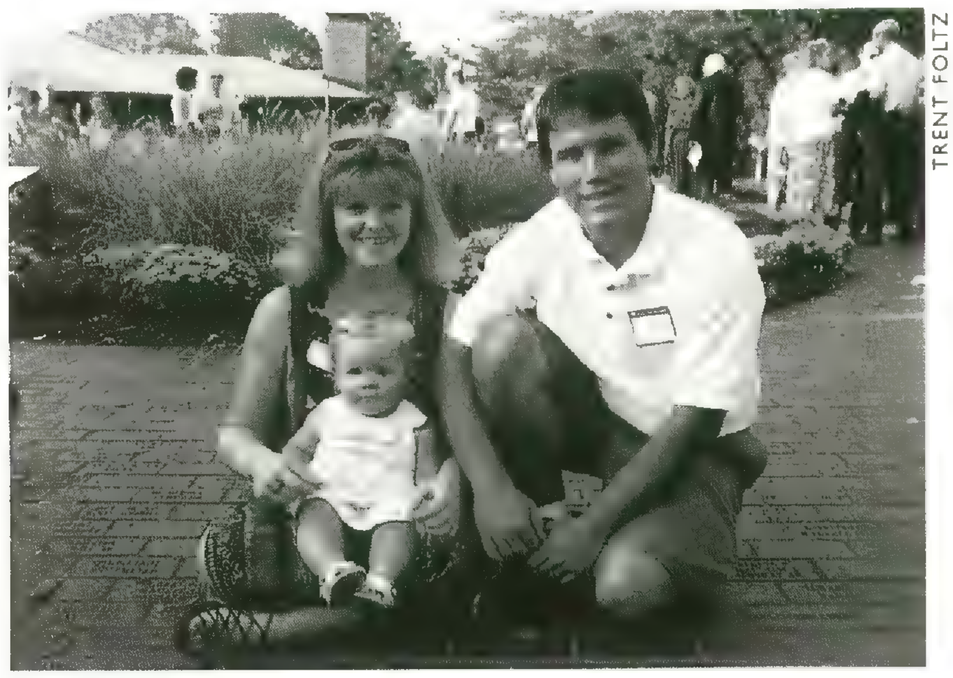
Raising Funds for the Bell Garden

Gateway Greening, Inc., is seeking funds to purchase and improve the Bell Garden, the city's largest community garden, located at the corner of Vandeventer and Bell Avenue. It is cared for by 40 families and Gateway Greening volunteers. The Bell Garden serves over 140 active community gardens as a center for urban gardening activities, including plant distribution, a training facility for volunteers, and the site of the annual Great Perennial Divide. For information on how to support the Bell Garden, please call Gateway Greening at (314) 577-9484.

TIM PARKER

Restoring Henry Shaw's Chair

THIS CHAIR, which has been on display in Tower Grove House for 25 years, apparently was the property of Henry Shaw. Mr. Shaw left furniture to his housekeeper, Rebecca Edom, in his will. A photograph of Mrs. Edom's parlor showing this chair was discovered two years ago in the Garden's archives. The chair previously had been displayed at the St. Louis Art Museum, which donated it to Tower Grove House in the 1970s. The Tower Grove House Historical Committee recently restored the chair and recovered it with antique red velvet, one of the materials listed in Shaw's 1854 inventory of furnishings.



TRENT FOLTZ

Annual Party for Brick Donors – A Family Affair

THE ANNUAL PARTY for donors of bricks at the William T. Kemper Center for Home Gardening is a celebration for young and old. Shown here are Joe Summers of the Garden Horticulture Division with his wife Tonya and their daughter Lillian, who received a brick in honor of her first birthday. For information about naming a brick for someone you love, please call Kathleen Kellerstrass in the Development Office, (314) 577-0874.

Calendar of Events

Nov. & Dec.

November 21 Tuesday
MEMBERS' PREVIEW PARTY

Holiday Flower Show: "A Victorian Holiday"

5 to 8 p.m., Ridgway Center. A treasure trove of colorful poinsettias, begonias, cyclamens, amaryllis, anthuriums, gloxinias, and more are set off by traditional greenery and twinkle lights. The lavish display is filled with elaborate urns, wrought iron fences, and an ornate fountain, all festooned with ornaments, garlands, and ribbons in crimson and gold splendor. One of the special "Holiday Journeys" events at the Garden — see page 3 for details.

Entertainment by "Silk Pajamas" • Cash Bar
Garden Gate Shop will be open.

Dinner Buffet is available for purchase in the Garden Café, $16.95 per person.

Call (314) 577-9500 for reservations.

November 22 through
January 1, 2001

Holiday Wreaths Exhibit

9 a.m. to 5 p.m. daily, Ridgway Center. Our beloved annual tradition features traditional and whimsical holiday wreaths created by some of the finest floral designers in St. Louis.

A Floral Gallery, Alex Waldbart, Botanicals on the Park, Dale Rohman, Detail, Flower Depot Ltd., Focus on Design by Schnucks Markets, Ken Miesner's Flowers, Kenary Park, Kirkwood Florist, Ladue Florist, Lee Russo Designs, My Secret Garden, Petals by Irene, Randy Felkey, Seeds, Silkworm's Garden, Studio P, Surprise, Tom Carr, Walter Knoll Florist, and Wichman's Flowers.

One of the special "Holiday Journeys" events at the Garden. Free with Garden admission or membership.

Nov. & Dec. Events

November 1 Wednesday

Winter Tram Schedule

Trams will run at 10 and 10:30 a.m., 2 and 2:30 p.m., weather permitting.

November 1 – 13

"Pole to Pole"

9 a.m. to 5 p.m. daily, Ridgway Center. Exhibition of 89 photographs by Donald M. Robinson. Free with Garden admission or membership.

November 5 – December 10
Sundays

"From the Garden, Live"®

Noon, Shoenberg Auditorium. The autumn season of the Classic 99 concert series is broadcast live on 99.1 FM. Presented by KFUO radio and the Garden. Call (314) 725-0099 for free tickets and information.

November 8 – 12
Wednesday – Sunday

Pre-Holiday Sale

9 a.m. to 7 p.m. Wednesday, 9 a.m. to 5:30 p.m. thereafter. In the Garden Gate Shop. Members take 20% off all merchandise, all five days. Meet WB Studios artist and preview the new lighted "Shaw House" on Wednesday, 9 to 11 a.m. and 3 to 5 p.m.

November 11 Saturday

"A Cappella Africa!"

7 p.m., Shoenberg Auditorium. The St. Louis African Chorus presents a feast of choral music and chants from Congo, Abyssinia, Botswana, Ghana, Namibia and Nigeria. $10 for adults, $5 for Garden members or students with I.D. Tickets available at the door or in advance by calling (314) 652-6800.

November 16 Thursday

"Forever Wild"

7:15 p.m., Shoenberg Auditorium. Photography, poetry, stories, and live music by Walkin' Jim Stolz, who has hiked 25,000 miles in American wilderness areas. Presented by the Sierra Club's eastern Missouri group. Free.

November 18 Saturday

Garden StoryTime

11 a.m., Garden Gate Shop book department. A storyteller shares tales of holiday celebrations. For children 4 to 10. Parents and guardians are welcome to attend, and children under 4 must be accompanied by an adult. All children's books are an additional 10% off for those attending StoryTime. Free with Garden admission or membership.

November 23 – 26
Thursday – Sunday

Thanksgiving Sale

9 a.m. to 5:30 p.m. daily, Garden Gate Shop. Do your holiday shopping early and take advantage of discounts of 20 to 50 percent on selected merchandise.

November 28 & 29, December 11 & 14

Holiday Luncheons

Noon, in the Tower Grove House Tea Room. A special holiday menu, presented by Tower Grove House Auxiliary. $15 per person, advance reservations required. Please call (314) 577-5150 beginning Friday, November 10.

December 6 – 10
Wednesday – Sunday

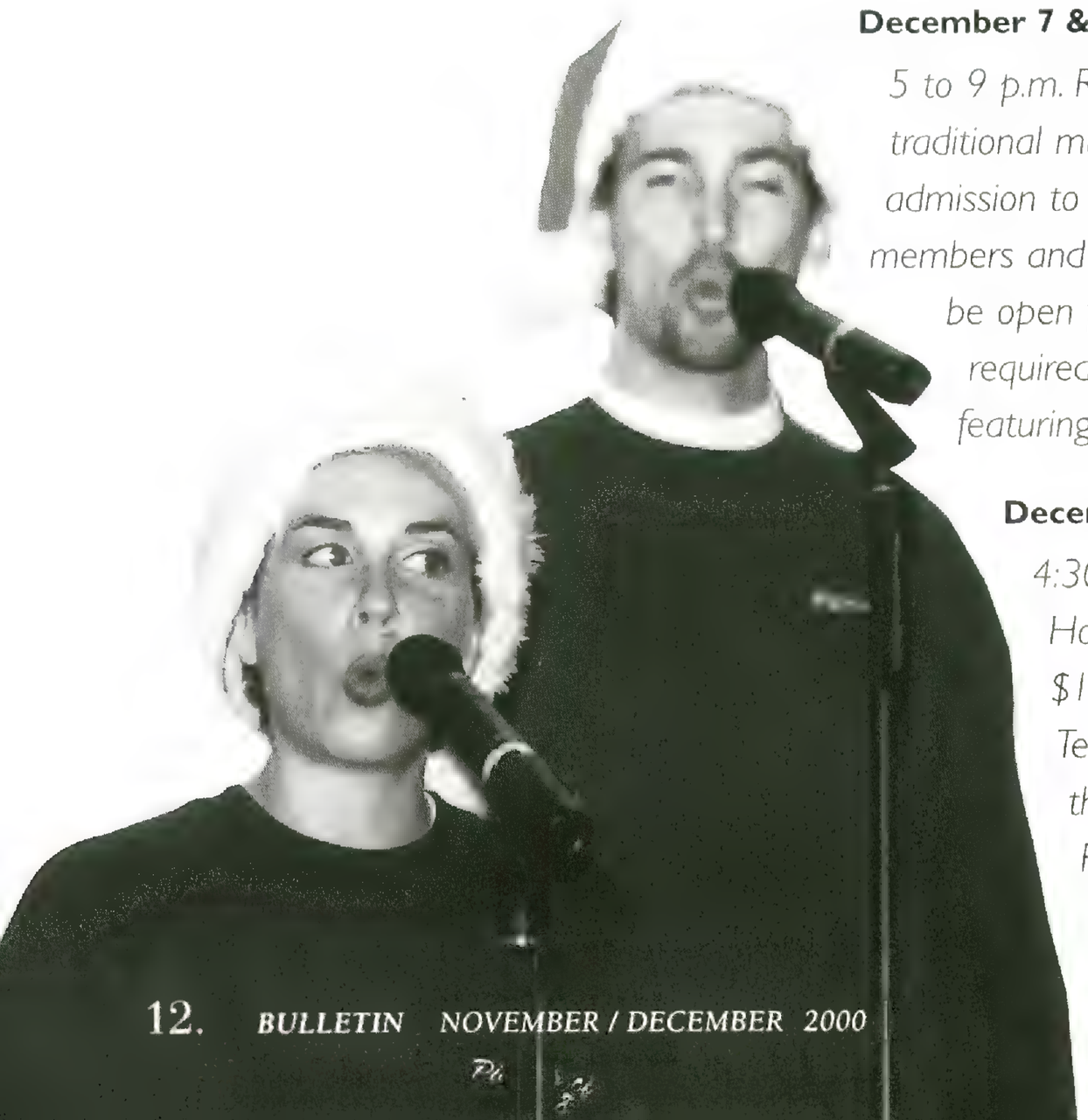
Holiday Sale

In the Garden Gate Shop, members take 20% off all merchandise, all five days. Wednesday: 9 a.m. to 7 p.m. Thursday and Friday: 9 a.m. to 9 p.m. Saturday: 8 a.m. to 5:30 p.m. Sunday: 9 a.m. to 5:30 p.m. Meet WB Studios artist and preview the new lighted "Shaw House" on Wednesday, 9 to 11 a.m. and 3 to 5 p.m., and on Thursday and Friday, 5 to 7:30 p.m. Local author Edward Sylvia signs copies of his new book on Saturday, 10 a.m. to 2 p.m.

December 11 Monday

Premiere: "Henry Shaw: The Good Neighbor"

5 p.m., Shoenberg Auditorium. A 30-minute television documentary created in honor of Henry



December 7 & 8 Thursday & Friday – Carols in the Garden

5 to 9 p.m. Ridgway Center and grounds. Join us for a delightful winter's evening as traditional music and caroling fill the air (see page 2). Ticket prices include admission to the Holiday Flower Show, "A Victorian Holiday." $6 for adults, $4 for members and seniors 65 and over, $2.50 for children 3 to 12. The Garden Café will be open from 5 to 7 p.m. with a special menu available, no reservations required. The Garden Gate Shop Holiday Sale will be open until 9 p.m., featuring a special 20% discount for members.

December 7 & 8 Thursday & Friday – Candlelight Tours

4:30 to 8:30 p.m. A very special holiday treat, presented by Tower Grove House Auxiliary (see page 2). Tickets by reservation only, $13 for adults, $11 for members. Candlelight Tour Package includes refreshments in the Tea Room and the special "Victorian Christmas Ornaments" exhibit in the House, plus admission to Carols in the Garden and the Holiday Flower Show. Reservations are limited to 200 guests each evening. Please call (314) 577-5150 for reservations beginning November 6.

A Special Members' Event – December 9 Saturday

Breakfast with Santa

8 to 10:30 a.m. Kick off the holidays with fun for all ages! Visit with Santa and his friends, make a fun holiday craft to take home, and share the spirit of the season by bringing a pair of mittens or a child's hat to donate to a good cause. Enjoy breakfast of pancakes, bacon, and sausage, scrambled eggs, hash brown potatoes, biscuits with butter and jam, and coffee cake with cinnamon and sugar. $15 per person, children under age two free. Advance reservations are required: please call (314) 577-9500. Seating in the Garden Café is on a first-come, first-served basis.

Shaw's 200th Birthday. The film by James F. Scott of St. Louis University celebrates Shaw as a visionary whose profound influence on 19th century St. Louis continues today. Film followed by a reception. Free.

December 16 Saturday

Madrigal Dinner

6:30 to 9 p.m., Ridgway Center. One of the special "Holiday Journeys" events at the Garden. See page 3.

December 16 Saturday

Garden StoryTime

11 a.m., Garden Gate Shop book department. Mrs. Claus visits from the North Pole to share classic and contemporary holiday tales. See November 18 for details.

December 25 Monday

Christmas Day

The Garden is closed.

December 27 – 31
Wednesday – Sunday

Pre-Inventory Sale

9 a.m. to 5:30 p.m. daily, Garden Gate Shop. Take advantage of discounts from 50% to 80% off selected merchandise.

December 17 Sunday

Chanukah: Festival of Lights

11 a.m. to 5 p.m., Ridgway Center. Free with Garden admission or membership. One of the special "Holiday Journeys" events at the Garden. See page 3 for details.

December 30 Saturday

Kwanzaa

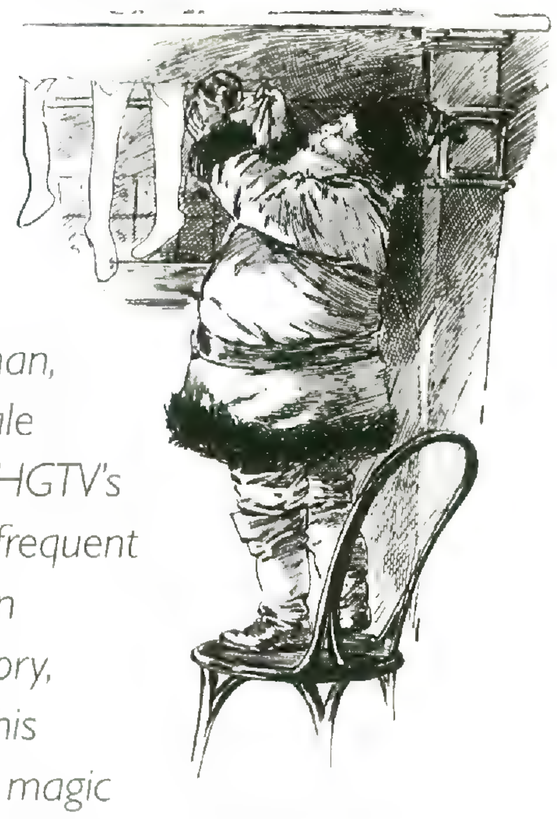
11 a.m. to 5 p.m., Ridgway Center. Sponsored by AT&T Wireless. Free with Garden admission or membership. One of the special "Holiday Journeys" events at the Garden. See page 3 for details.

Nov. & Dec. Events

November 14 Tuesday

Members Day

Holiday Decorating



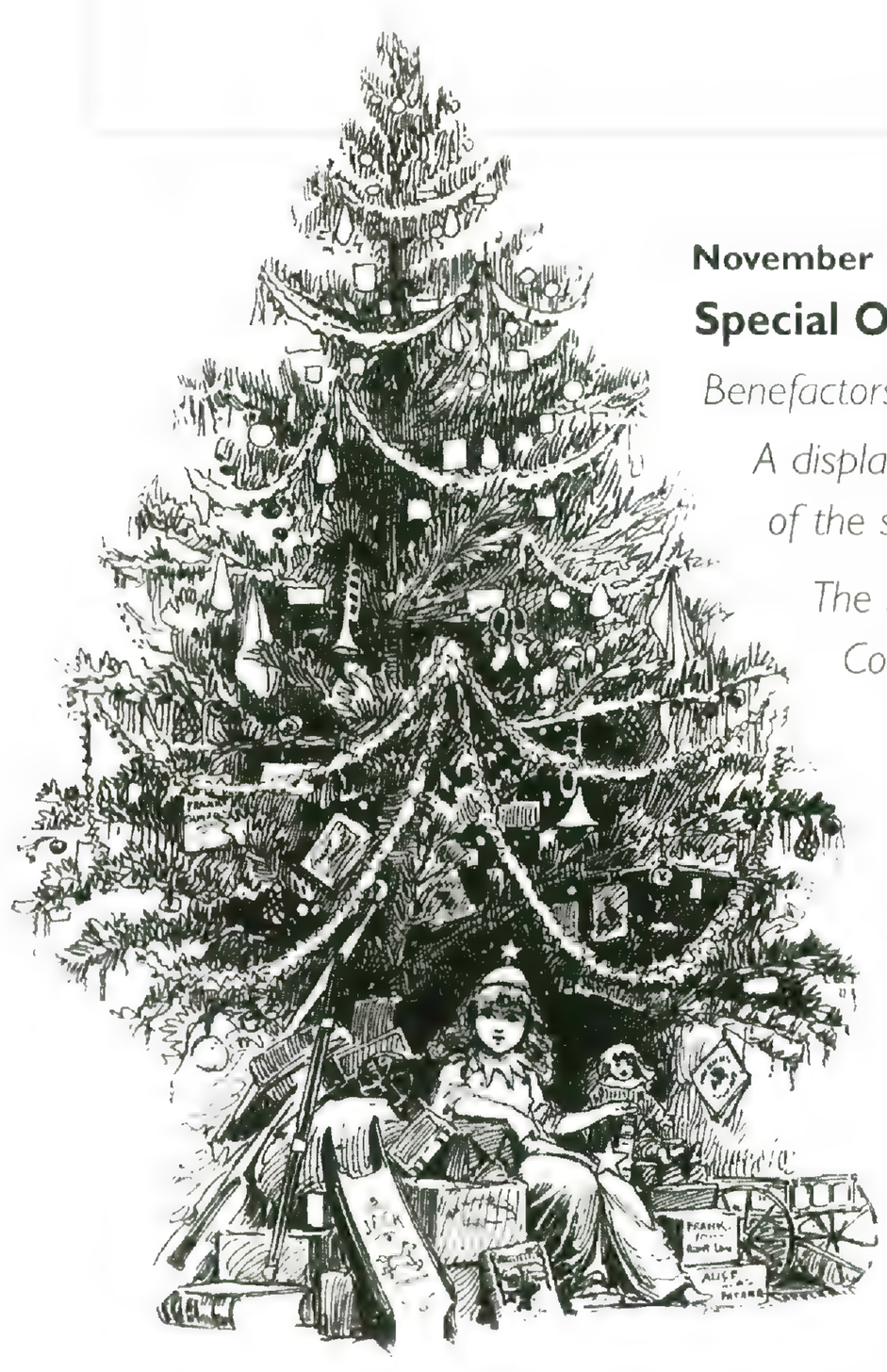
11 a.m., Shoenberg Auditorium. "Holiday Decorating with Dale Rohman, America's Flower Man." Dale Rohman has appeared on HGTV's "Today at Home" and is a frequent guest on radio and television nationwide. He weaves history, traditions, and folklore into his presentations while making magic with unusual materials to create gorgeous holiday decorations. Seating is on a first-come, first-served basis. In the Garden Gate Shop, members receive an extra 5% discount on all holiday decorations, ornaments, books, plants and cards.

December 16 Saturday – Members' Day

Holiday Concert

1 p.m., Shoenberg Auditorium. The St. Louis Gateway Singers, originally the Anheuser-Busch Chorus, welcome the holidays with a performance of beloved favorites and traditional holiday music. Seating is on a first-come, first-served basis. In the Garden Gate Shop, members receive an extra 5% discount on all holiday music, including CDs and tapes.

Members Days are free and presented exclusively for Garden members and their guests. Receive free tram rides, special discounts in the Garden Gate Shop, and 10% off in the Garden Café.



November 18 Saturday

Special Opening: "Victorian Christmas Ornaments"

Benefactors' Tour - 10 a.m. • Lecture - 11 a.m. • Luncheon - 12:30 p.m.

A display of antique decorations from the collection of Mr. and Mrs. Laurent Jean Torno. One of the special "Holiday Journeys" events at the Garden — see page 2.

The special opening on November 18 is presented by the Tower Grove House Historical Committee and Botanicals on the Park, to benefit Tower Grove House.

- *$15 Supporter: Includes exhibit admission plus a lecture on holiday cultural traditions in Shoenberg Auditorium by Pastor Frederick S. Weiser, an authority on Pennsylvania German folk art and culture who has consulted for Colonial Williamsburg, Winterthur, the Boston Museum of Fine Art, and the Philadelphia Museum of Art.*
- *$45 Patron: Includes all of the above plus luncheon at Spink Pavilion.*
- *$150 Benefactor: Includes admission for two to all of the above plus a private tour of the exhibit, led by Laurent and Betty Torno.*

Visit Botanicals on the Park holiday demonstration booth in Monsanto Hall from 10 a.m. to 3 p.m. and get great ideas for holiday decorations. Purchase your favorite Christopher Radko ornaments too!

For reservations please call (314) 577-9500.

Win Airfare to London!

Don't miss your last chance to enter! This year, when you purchase a new membership or renew a Garden membership, you will automatically be entered in a drawing for free airfare to London, including a tour of the Royal Botanic Gardens, Kew. The drawing will be held in January 2001. Airfare is provided by TWA. No purchase required.

20% off Gift Memberships

November 8 – 12, Wednesday – Sunday

December 6 – 10, Wednesday – Sunday

When you come to the Garden during the November and December Holiday Sales in the Garden Gate Shop, you may purchase a regular $55 Garden membership for just $44; or purchase a $50 senior membership for only $40.

Enjoy your special 20 percent members' discount right away at the Garden Gate Shop sale. Or give a gift that will delight your family and friends all year long.

Each person who receives a gift membership will also receive a pair of gardening gloves and wildflower seeds specially packaged with a holiday greeting from you.

November 27 Monday

A Day at Allerton Gardens

A Christmas luncheon, artisans, and shopping await you in the gloriously decorated English Manor House mansion at Allerton Gardens in Monticello, Illinois. Join us on Monday, November 27 for a one-day bus tour, which departs from the Garden at 8:00 a.m. and returns at 4:30 p.m. $55 per person includes transportation, admission to the Manor House, Christmas luncheon, and a $10 donation to Tower Grove House. Reservations are required by November 15; please call (314) 577-9500. Sponsored by Tower Grove House Auxiliary.

NEW!

Purchase Memberships Online!

Now you can purchase or renew Garden membershipsonline. Just go to the Garden website at www.mobot.org to enjoy the convenience of a secured website for your membership transactions.

MISSOURI BOTANICAL GARDEN ARCHIVES

In Memoriam
Ray Garlick

Ray Garlick, a staff member and volunteer at Shaw Arboretum for over thirty years, died in July. Ray was the only full time maintenance employee at the Arboretum for many years; as a volunteer he continued to work at least four hours a day. He and his wife Amanda lived in the stone house right behind the Visitor Center.

Peter Raven said, "No one has contributed more to the maintenance and improvement of the Arboretum property than Ray. He will be missed and appreciated, both professionally and as a fine person. They don't make many like him."

John Behrer, director of the Arboretum, said, "Ray taught many a green-horned kid like me how to care for the land and get it done right. He took pride in his work and had a kind and caring heart. I feel fortunate to have known him."

Thank You to Sponsors of Best of Missouri Market

The 9th annual Best of Missouri Market was a great success, thanks to the hard work and dedication of the co-chairs, Nora Stern and Ellen Dubinsky, the Members' Board, and all of the volunteers and staff who gave so generously of their time. Special thanks goes to Ronnoco and Great Harvest Bread Company for their generosity. Our profound appreciation goes to each of our sponsors:

The Home Depot

Coca-Cola

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Commerce Bank

Ralston Purina Company

Bank of America

Agri-Missouri

Clifford Willard Gaylord Foundation

St. Louis County Farm Bureau

A New Garden Division

The Gateway Center for Resource Efficiency

Leadership to preserve the environment

THE BOARD OF TRUSTEES has established the Gateway Center for Resource Efficiency as a new division of the Missouri Botanical Garden, effective November 1, 2000. The staff of the Gateway Center were associated with MERP, MidAmerica Energy & Resource Partners, which has operated as part of the Cooperating School Districts in St. Louis since 1988.

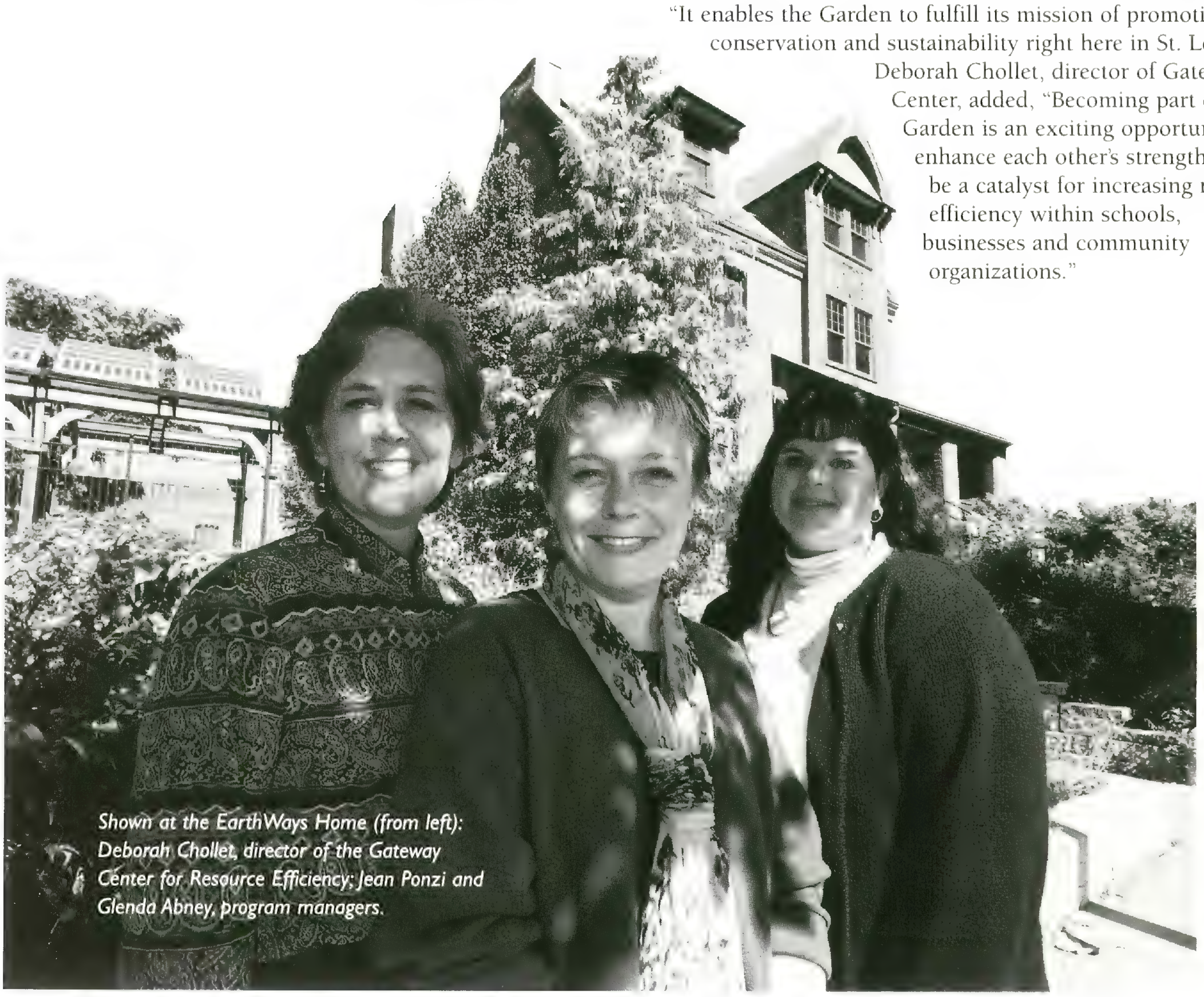
Gateway Center will have its headquarters in the EarthWays Home at Grand Center. A gift from the Danforth Foundation provided support for launching the new division.

Investing in the Future

"The Gateway Center will establish partnerships to achieve real results, such as reducing solid waste and utility and maintenance costs, while promoting the economic viability of sound environmental practices," said Garden director Peter H. Raven.

"It enables the Garden to fulfill its mission of promoting conservation and sustainability right here in St. Louis."

Deborah Chollet, director of Gateway Center, added, "Becoming part of the Garden is an exciting opportunity to enhance each other's strengths and to be a catalyst for increasing resource efficiency within schools, businesses and community organizations."



Shown at the EarthWays Home (from left): Deborah Chollet, director of the Gateway Center for Resource Efficiency; Jean Ponzi and Glenda Abney, program managers.

A Dynamic History

With a staff of seven, Gateway Center will build upon the solid foundation of MERP, a self-supporting organization with a track record of award-winning programs and funded contracts. Founded by Ann Rivers Mack, a former physics teacher, MERP established a reputation for excellence working primarily with schools. Key programs improved energy efficiency and reduced the solid waste stream while providing cutting-edge environmental education.

"We demonstrate how saving energy and recycling can improve the bottom line," said Chollet. "For example, St. Louis County students participating in waste reduction programs last spring kept nearly three million pounds of paper out of landfills, the equivalent of six 60-foot railroad carloads.

"The St. Louis Public Schools district recently completed a comprehensive energy savings program, installing energy-efficient conservation measures that are expected to save more than $9 million over the next ten years; the savings also helped fund their energy education programs."

The EarthWays Home

A landmark in the Grand Center area, the EarthWays Home demonstrates fundamental ways to minimize human environmental impact. The 4,400 square-foot house was built in 1885 and renovated in 1992, supported by an investment of nearly $500,000 from dozens of funders. The House is a working model of energy-efficient appliances and systems, including geothermal heating and solar panels; water conserving fixtures; recycled furnishings; and a garden that demonstrated use of native plants and landscaping for energy conservation.

"The EarthWays Home was designed to promote education and understanding about the connections between environmental problems and personal and community actions," said Peter Raven. "EarthWays is a splendid showcase for our new Gateway Center for Resource Efficiency, as it moves the debate over the environment from a philosophical plane to a practical one. Here at last are simple, workable ideas that anyone can adopt and which will have a significant impact on our ability to preserve the environment."

The Gateway Center staff will move into the EarthWays Home this winter, and plans are underway to open the EarthWays Home for public tours and meetings. Support from the St. Louis-Jefferson Solid Waste Management District, the William T. Kemper Foundation, and FirStar Bank has been instrumental in revitalizing this unique St. Louis facility.

Raven said, "The Gateway Center combines the expertise of the former staff of MERP and the leadership of Missouri Botanical Garden to improve resource efficiency in the St. Louis region. Educating people in these matters is a vital long-term investment that benefits our environment, our economy and our society. It pays off in generations of citizens who make sound environmental decisions."

PHOTOGRAPHS BY TIM PARKER

Top: Gateway Center staff members Susanne Reed and Heidi Kwentus examine energy efficient and water saving features in the EarthWays Home. Tiles in this washroom are made of recycled glass.

Middle: Cassaundra Jones and Margaret Lilly, of the Gateway Center staff, crush aluminum cans for recycling in the EarthWays kitchen.

Bottom: Students from Oak Hill Elementary created their own energy efficient house to demonstrate ways to save energy and money at home.

Research

TIM PARKER

Speakers at the Symposium included (from left): EricDinerstein, Richard Primack, Mick Richardson, Carol Fialowski, George E. Schatz, Gary Nabhan, Joel Cracraft, Stuart Pimm, Peter Raven, Greg Mueller, and Debra Moskovits.

47th Annual Systematics Symposium

Conservation

"OUR ACTIONS DURING THE NEXT TWO DECADES will largely determine how many of the world's 300,000 species of plants will survive for future generations," said George E. Schatz, associate curator at the Garden. Systematics provides fundamental scientific information that is crucial to conservation efforts. Four hundred scientists from the United States and abroad heard this urgent call to action at the Garden's annual Systematics Symposium, October 13 – 14, 2000.

Scientists around the world are racing to study and document biological diversity as more and more species are threatened with extinction. Research can be a powerful tool supporting conservation and sustainable development, but experience has shown that projects that recognize and respect the needs of each country and culture have a better chance of success.

Successful conservation projects were presented, such as The Chicago Wilderness, some 200,000 protected acres that coexist with the nation's third largest metropolis. Other speakers analyzed the rate of global extinctions and how researchers can work to identify areas most at risk.

The National Science Foundation has provided support for the Systematics Symposium for 45 of its 47 years, including this year.

Kennedy is New Director of Center for Plant Conservation

KATHRYN KENNEDY, Ph.D., has been named executive director and president of the Center for Plant Conservation (CPC). Founded in 1984, CPC is a nationwide coalition of leading botanical institutions dedicated exclusively to preserving America's threatened flora. CPC has its headquarters at the Missouri Botanical Garden.

Dr. Kennedy comes to the Garden from Austin, Texas. She had been a botanist for the U.S. Fish and Wildlife Service since 1991, where she was instrumental in developing recovery plans for endangered and threatened species. She was formerly a research scientist for Texas Parks and Wildlife Department and a plant ecologist for the National Wildflower Research Center, now the Ladybird Johnson Wildflower Center.

Kennedy earned her Ph.D. in systematic botany from University of Texas in 1992 and has done field work in the U.S., Central and South America. She has served on the CPC Science Advisory Council and is active in the Society for Conservation Biology and the Society for Ecological Restoration.

Goldblatt Receives Herbert Medal

Peter Goldblatt, B.S. Krukoff Curator of African Botany at the Missouri Botanical Garden, was awarded the prestigious Herbert Medal by the International Bulb Society for his work lifetime study of Iridaceae, the iris family. Goldblatt is one of the world's leading experts on Iridaceae and its close relatives. With about 1,800 species worldwide, the iris family is concentrated in Africa, where over 1,000 species are native.

The Herbert Medal is the highest honor the Society can bestow. It is named for William Herbert, (1778-1847), a pioneer geneticist and plant breeder and son of Henry Herbert, Earl of Carnarvon.

Goldblatt, a native of Johannesburg, has been associated with the Garden since 1972. He has written some 200 scientific papers and several distinguished botanical monographs, including Gladiolus in Southern Africa, 1998, *in collaboration with John Manning.*

In Memoriam

Robert Ornduff

ROBERT ORNDUFF, former director of the University of California, Berkeley's Botanical Garden, died September 22 in California at age 68. Dr. Ornduff had been an honorary trustee of the Missouri Botanical Garden since 1993.

Ornduff was a professor emeritus of integrative biology at UC Berkeley. He was a field biologist, an expert on California native plants, and wrote more than 150 scientific papers and related papers during his 48-year career. He is the author of the popular field guide, *Introduction to California Plant Life*.

"Bob was a very, very caring person and a great teacher who deeply loved and appreciated plants," said Peter Raven. "This came through in one of his biggest contributions, which was turning the UC Botanical Garden into a world-class institution and a leading place for studying and displaying the unique variety of California plants. As an honorary trustee, Bob helped us with the development of scientific programs at the Garden. He was an exceptional scientist who will be missed by botanists throughout the world and, of course, by our Garden community."

MARY BUTKUS

Belize Zoologist Receives First ICTE Conservation Action Prize

DR. SHARON MATOLA, director of The Belize Zoo, received the first Conservation Action Prize from the International Center for Tropical Ecology at the University of Missouri-St. Louis. The award was presented October 11 at Conservation Forum 2000 at the Missouri Botanical Garden. Matola established The Belize Zoo and Tropical Education Center in 1983. She was honored for her dedicated to conservation and education in Belize and her international contributions to biodiversity conservation. Dr. Matola is shown here with Dr. George E. Schatz, a curator at the Garden.

TRIBUTES

JULY – AUGUST 2000

For information on making a gift to the Tribute Fund, please call the Development Office at (314) 577-5120.

IN **HONOR** OF

Margaret Batchelor and George S. Hagee
Miss Phyllis McPheeter

Mrs. Dorothy Beezley
Frances Beezley

Mrs. Irene Boyle
Bill Boyle

Dr. Shu Cheuk
Dean and Paula Burgess

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Dr. and Mrs. John W. Fries

Mark Wrighton and Risa Zwerling
Mr. and Mrs. Stephen F. Brauer

continued on page 20

TRIBUTES

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IN MEMORY OF

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Jean and Alva Moog
Mother of Dr. Jane Allen
Mrs. Ida Cozak Mariz
Betsy Allyn
Jayne Baggett
Cindy and Bill Bennett
Mr. and Mrs. Michael M. Boland
Betty Brandt
Mr. and Mrs. Fred Bruning
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Lots of Gifts under $25!

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Below: 2001 MBG Calendar, 16 x 12.

"The Shop at the Garden"

2000 MBG Holiday Card by St. Louis artist Ann Thompson. Box of 12 cards.

See the World

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"Holiday Journeys"

Discover the magical world of Carols in the Garden, Candlelight Tours, Breakfast with Santa, & more!

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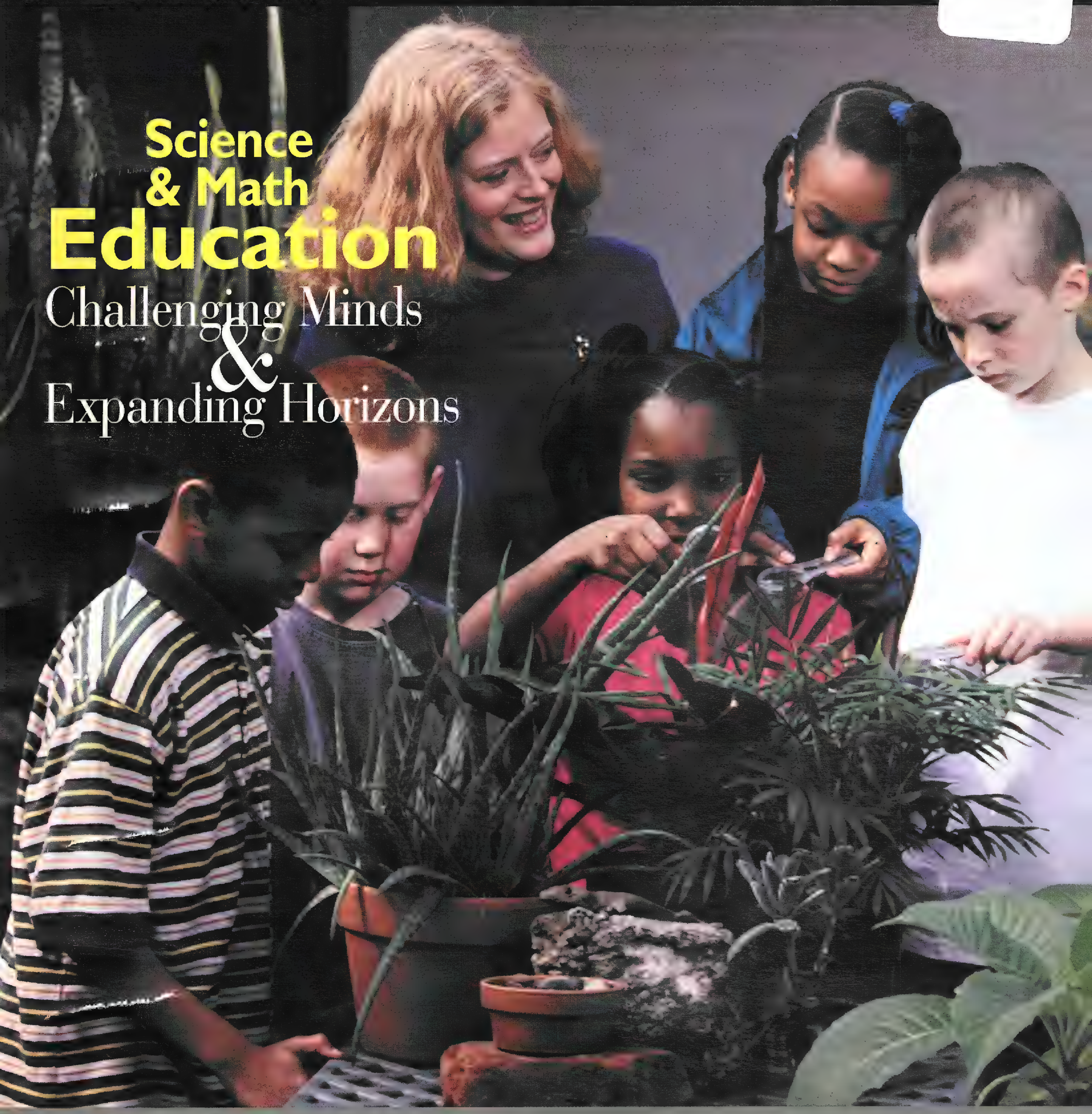
See the World

A Special Issue of the Bull

Science & Math Education

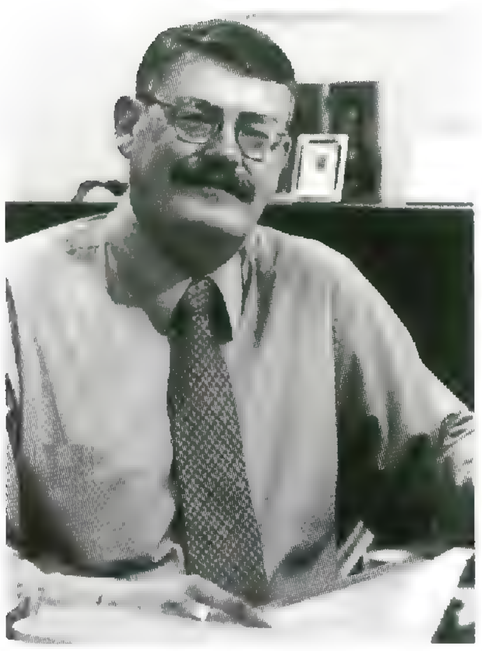
Challenging Minds & Expanding Horizons



Spring 2000

Missouri Botanical Garden

Developing Literacy in Science & Math



"The Education Division has demonstrated impressive success in strengthening environmental science education in St. Louis. We look forward to exciting new opportunities to serve the community."

–Dr. Larry DeBuhr, Director of Education

IF we are to create a sustainable world for ourselves and our children, we must understand the issues — and the science behind them.

As one of the world's leading research institutions, the Missouri Botanical Garden is renowned for discovering and sharing scientific knowledge. The Garden provides a superb training program for scientists at the graduate and postgraduate level.

The Garden's Education Division is dedicated to developing the next generation of scientists. Working in partnership with local schools, the Garden provides outstanding programs for over 135,000 children and adults each year. Its innovations have made it a leader among botanical institutions in the United States and abroad.

Education at the Garden serves the entire community through three major goals:

- To educate children and adults about plants, ecology, and the environment.
- To improve science education in the St. Louis metropolitan area.
- To create learning opportunities for visitors as they enjoy the Garden.

Dr. Larry DeBuhr, director of education at the Garden, said, "Ten years ago, we began to align our education program more centrally with the national science reform effort. We introduced innovative programs that made a significant impact on existing science curriculum in local schools. It is a clear measure of our success that the St. Louis Public School District elected to continue all of our programs which began under school desegregation.

"We create partnerships with elementary and middle schools because it is crucial to get children interested in science early. Since many elementary school teachers are looking for help to teach science effectively, we provide the professional training and resources they need to understand science concepts and present them in the classroom.

"After a decade, we can measure our success by the increasing numbers of science teachers who are employing more effective methods.

"Current research demonstrates that students learn best from hands-on, interactive activities. There is no question that fostering analytical thinking improves learning skills. In all of our programs, we emphasize the *process* of science — collecting, analyzing, and understanding data in a broad context."

For adults, the Garden's Horticulture Division offers hundreds of classes at the William T. Kemper Center for Home Gardening and at four community centers around the metropolitan area. Each year, more than 11,000 people participate in courses on gardening and horticulture, with an emphasis on ecology and the environment.

The Garden provides outstanding programs for 108,000 children and 30,000 adults each year, including more than 2,700 teachers.

Garden outreach programs at senior citizen centers and community groups serve 3,000 older adults every year. More than 750,000 people of all ages visit the Garden and the Arboretum annually, where they can learn about science through exhibits and demonstrations.

Garden educators are innovators, dedicated to developing tbe next generation of scientists. Here, students in a Discovery Unit investigate tropical plants in the Climatron® conservatory.

Future goals for the Garden's education program are even more ambitious:

- To establish a Center for Elementary Environmental Science Education focused on professional development for teachers.
- To complete the new Dana Brown Foundation Overnight Education Center at the Arboretum, where children and adults will encounter nature on a deeper, more profound level.
- To create an outdoor Children's Adventure Area at the Garden, with interactive, enjoyable activities to engage children and their parents in the discovery of ecology and environmental science.
- To increase the integration of computer technology into education programs.
- To provide more instructional materials and curriculum development for teachers.
- To expand the Garden's science outreach programs to an urban audience.
- To improve interpretative exhibits for visitors.

MISSOURI BOTANICAL

JUN 15 2000 MISSOURI BOTANICAL

GARDEN LIBRARY

Comment

Missouri Botanical Garden Mission:
To discover and share knowledge about plants and their environment, in order to preserve and enrich life.

As a youngster, I was fascinated by the natural world of insects, animals, and plants. Many children are. But I was also fortunate enough to grow up in San Francisco, where I became involved at a very early age with the outstanding programs offered at the California Academy of Science.

The superb staff and classes gave form and focus to my youthful interest. They encouraged me to make science my life's work.

Here at the Missouri Botanical Garden, we have the same opportunity to train young minds and influence the next generation of scientists. Education has always been part of the Garden's mission, since Henry Shaw decreed it in his Will. Today that mission carries a greater sense of urgency than ever before.

Our history, our scientific and educational resources, have led to our wide recognition as an institution that creates and carries out policies and programs dedicated to conservation and building a sustainable world. We are a focal point for making things happen, and we feel a strong obligation to do more.

We are expanding our efforts in science education for students from kindergarten through high school. We intend to be a catalyst for change, and we seek support from all those who are committed to preserving, enriching, and expanding human life and opportunity.

The Garden is dedicated to using its resources and expertise to provide the highest level of service to our community. For the future of our children, our world, we can do no less. — *Peter H. Raven, Director*

On the Cover Maried Swapp, MBG instructional coordinator, with students in the greenhouse classroom at Mullanphy Botanical Garden Investigative Learning Center. — *Photo by Tim Parker*

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Science Education serving our schools & our children's future

Missouri Botanical Garden

See return form over

meet the needs of schools. Evaluations reveal that teachers and students prefer the Discovery Units to traditional field trips, and children learn science concepts better.

"Children learn by seeing and doing. This approach allows us to work with the students on a much higher level than a conventional field trip," said Jennifer Schaus, a Garden instructor.

continued on page 6

A Special Report

ng from the ral World

Discovery begins with very young minds.

– continued from page 5

Lisa Leuther, a first grade teacher at Wilson School, said, "I had a student who thought that more than one plant would grow from a single seed. Another planted his seed upside down and thought the plant would grow upside down. They learned by asking questions and experimenting."

In addition to Discovery Units, the Education Division offers field trip programs at the Garden, Litzsinger Road Ecology Center, Shaw Arboretum, and at many schools in the metropolitan area. Every activity is interactive, hands-on.

The success of the Garden's approach speaks for itself. Last year, over 46,000 students participated in field trips at the Garden, the Arboretum, and the Litzsinger Road Ecology Center. The Education Division can accommodate only half of the requests for visits.

Children learn best by seeing and doing. Discovery Units allow Garden educators to work with students on a more profound level. Here, a volunteer instructor introduces a class to the Climatron® rain forest.

The focus is hands-on instruction, not just "a walk and a talk."

"Everyone benefits when students and their teachers are both involved," said Julie Knobbe, coordinator of school programs."They learn much more when they discover that science isn't a bunch of boring, confusing facts in a book — it's asking questions, gathering data, and using the information to understand the world."

Litzsinger Road Ecology Center is a 34-acre outdoor classroom in St. Louis County operated by the Garden. It features a restored prairie, woodlands, and a stream habitat where groups of students and teachers are invited to participate in field studies in ecology and environmental science year round. Volunteer Master Ecologists receive extensive training to assist staff and students at the Center.

The Center offers a variety of professional development programs and sponsors Field Science Grants to assist teachers who want to conduct independent research projects there."We see teachers returning to the site to share their research with their students," said Celeste Prussia, program manager at the Center.

Shaw Arboretum is a preserve of natural beauty located on 2400 rolling acres near Gray Summit, Missouri. It has been owned and operated by the Garden for 75 years.

Today the Arboretum is a nationally recognized environmental education center where students explore restored native plant communities, including the 100-acre tallgrass prairie, wetlands, a five-acre native wildflower garden, glades, miles of trails though woodlands, and a gravel bar along the Meramec River.

All classes at the Arboretum are held out of doors. "I think there is a misconception that we only teach about plants," said Lydia Toth, education manager at the Arboretum. "While plants are a part of the picture, we have a much wider focus on environmental science and basic ecology."

The courses also provide teachers with field techniques for conducting their own outdoor classes at the Arboretum. Toth explained, "For teachers, the focus is hands-on instruction, not just a walk and talk."

— Reporting by Alene Hill

Garden programs give many students their first encounter with nature. Above: A volunteer instructor leads a Discovery Unit on trees.

Right: Students and teachers are invited to participate in field studies year round at the Litzsinger Road Ecology Center.

CLOSEUP

Seeing, Touching, and Hearing the Natural World

A noisy group of third graders splashed along the edge of the wetlands at Shaw Arboretum, armed with dipping nets on long poles. "They collect insects, find crayfish tunnels, see turtles, fish, and dragonflies, or find nymph shells from damsel flies," said Janet Dickey, a Teacher/ Naturalist volunteer. "It is all hands-on, seeing, touching, and hearing."

Outdoor classes at the Arboretum encourage children and adults to wander off the path, explore, and develop a better understanding of nature. In today's world, many children never have an opportunity to experience nature first hand. At the Arboretum, students can travel back in time, to the days when prairies covered 40 percent of Missouri.

Lydia Toth, education manager at Shaw Arboretum (top, right), with a class in the restored glades complex.

"Most of them have no idea how Native Americans and early settlers used prairie plants and animals to survive," Dickey explained. "We help them discover which milky sap can be used to treat a wound, or what part of a plant - the root or stem — they might want to eat."

Teacher/Naturalists are volunteers, highly trained to assist education staff at the Arboretum. The classes include everything from aquatic habitats and forest ecology to animal adaptations and the science of maple syrup.

The new Dana Brown Foundation Overnight Educational Center at the Arboretum will provide facilities for in-depth field studies for children and adults. Nearly 16,000 children and adults take classes at the Arboretum each year.

Training Teachers

To Benefit Future Generations

IT IS EARLY. IT IS SATURDAY. But 53 teachers are eagerly attending a workshop at the Garden, and they are up to their elbows in green slime.

"Are you ready to be scientists?" The instructor asks the teachers. "Imagine a space probe discovers a planet covered in seas of green oceans. We are scientists. We have a mission to investigate *Oobleck*."

The teachers investigate and analyze the strange green substance, *Oobleck*, and discuss their findings. Later they design a spacecraft to land on the ocean of *Oobleck*, and in the final session, they compare their methods to those of professional scientists. They discover that ingredients for the green slime can be found in any kitchen.

"We want teachers to get excited about science, so that their students will get excited about it too," said Barbara Addelson, the Garden's manager of outreach. "Good teaching is hands-on and engages students. It doesn't have to involve high tech labs."

GEMS (Great Explorations in Math and Science) is a flexible curriculum series of activity-based science and mathematics for grades preschool through 10, in use nationwide. Developed at the Lawrence Hall of Science at University of California, Berkeley, GEMS workshops help teachers improve their skills and prepare them to use GEMS units with their classes. The Missouri Botanical Garden is a certified GEMS training site.

"All too often, teachers need help to understand science concepts before they can teach them effectively," said Addelson. "We provide courses that strengthen their knowledge."

Research shows that an interactive, inquiry based approach is more effective in helping students learn science concepts. Teachers who participate in professional training in Garden programs use more hands-on methods and are more knowledgeable; as a result, school science curriculum has improved.

In addition to GEMS workshops, the Garden provides teacher training through a Summer Ecology program and a year long Natural Science Institute. Many activities are held outdoors at Litzsinger Road Ecology Center and Shaw Arboretum. Teachers are introduced to basic ecological concepts, and the training is hands-on. For Aquatic Ecology, teachers grab nets and catch crayfish and tadpoles, test water, observe microscopic organisms and design a wetlands model — just as their students will do.

Many courses allow teachers to earn college credit at Lindenwood College, Maryville University, University of Missouri-St. Louis and Webster University.

The Education Division works with some 2,700 teachers each year. This includes training for over 500 teachers a year from St. Louis Public Schools as part of the Urban Systemic Initiative, a multi-year program funded by the National Science Foundation.

— Reporting by Jean Abernathy

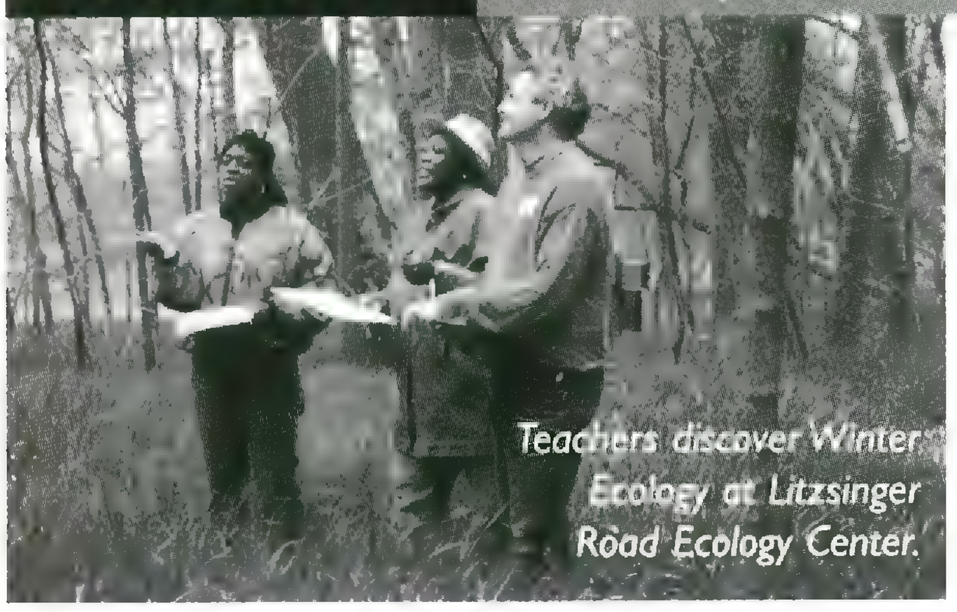
Professional development workshops help teachers strengthen their knowledge of science concepts in order to teach them more effectively.

A teacher who is excited about science will inspire hundreds of students.

Litzsinger Road Ecology Center offers professional development programs for teachers and sponsors field study grants for independent research. Shown here, Celeste Prussia, manager of the Center (center), working with teachers in the woodland restoration area.

CLOSEUP

Workshops in Active Learning



Teachers discover Winter Ecology at Litzsinger Road Ecology Center.

The blustery north wind does not discourage a group of teachers as they explore the winter landscape at the Litzsinger Road Ecology Center. They observe birds, study twigs, and record air temperature and wind speed. Later, armed only with their drawings, the teachers discover they can look at a twig and identify the tree.

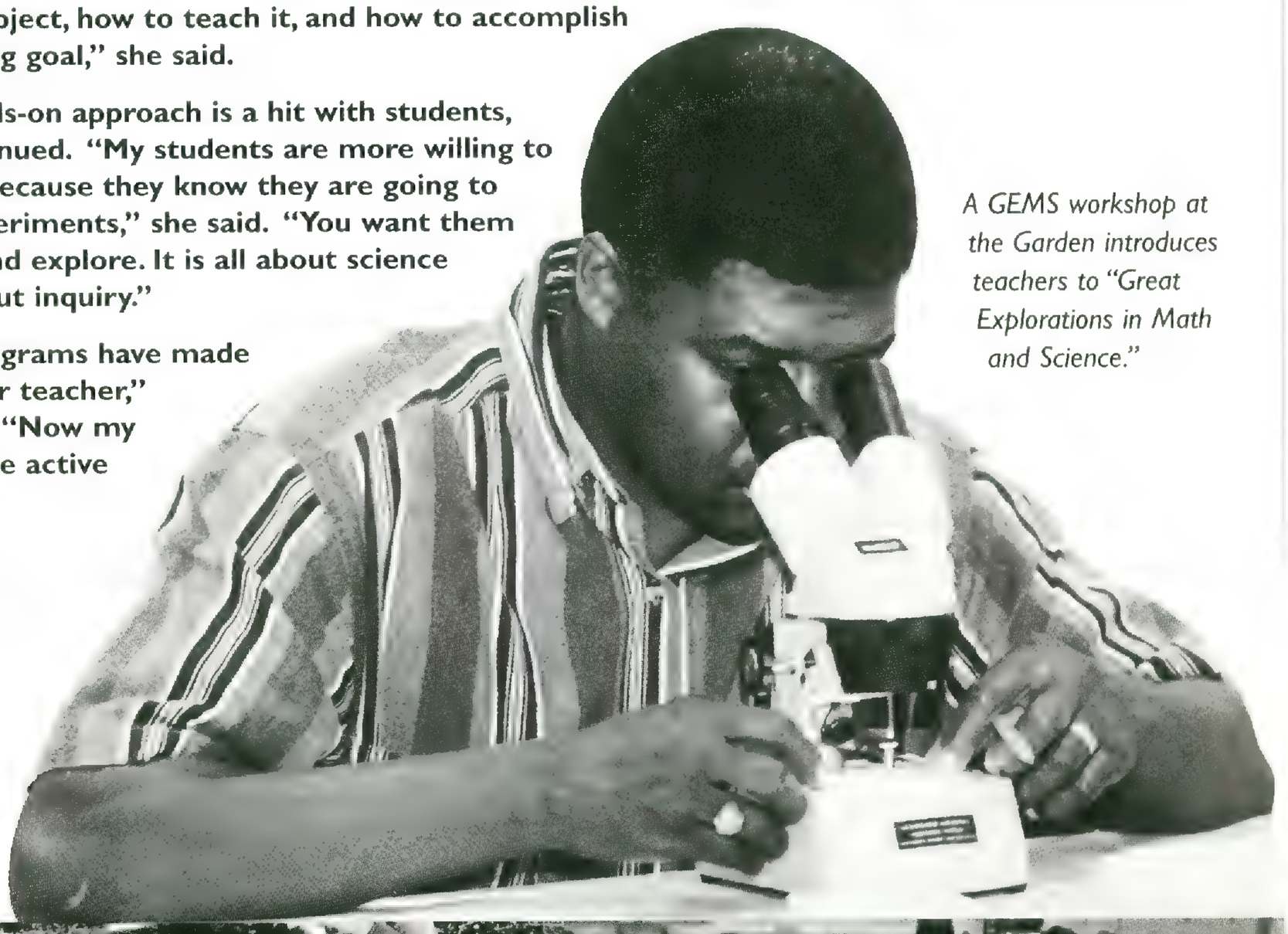
Before they bring their students to study winter ecology at the Center, educators experience the activities first hand at workshops. The Winter Ecology curriculum, partially funded through the National Fish and Wildlife Foundation, is just one of the ways the Garden helps teachers improve the science programs at their schools and improve their teaching skills.

Kathleen Glass is a middle school science teacher in the Normandy School District who has participated in many Garden workshops. She said, "Three years ago, when I was teaching at Clay Elementary School, I was offered the opportunity to teach the science lab. I liked science, but I didn't have a science background. I was looking for a way to brush up on my science skills."

The Garden's programs were the answer. "The resources and workshops give me more insight into the subject, how to teach it, and how to accomplish the teaching goal," she said.

The hands-on approach is a hit with students, Glass continued. "My students are more willing to read now because they know they are going to do the experiments," she said. "You want them to touch and explore. It is all about science and all about inquiry."

"The programs have made me a better teacher," Glass said. "Now my students are active learners."



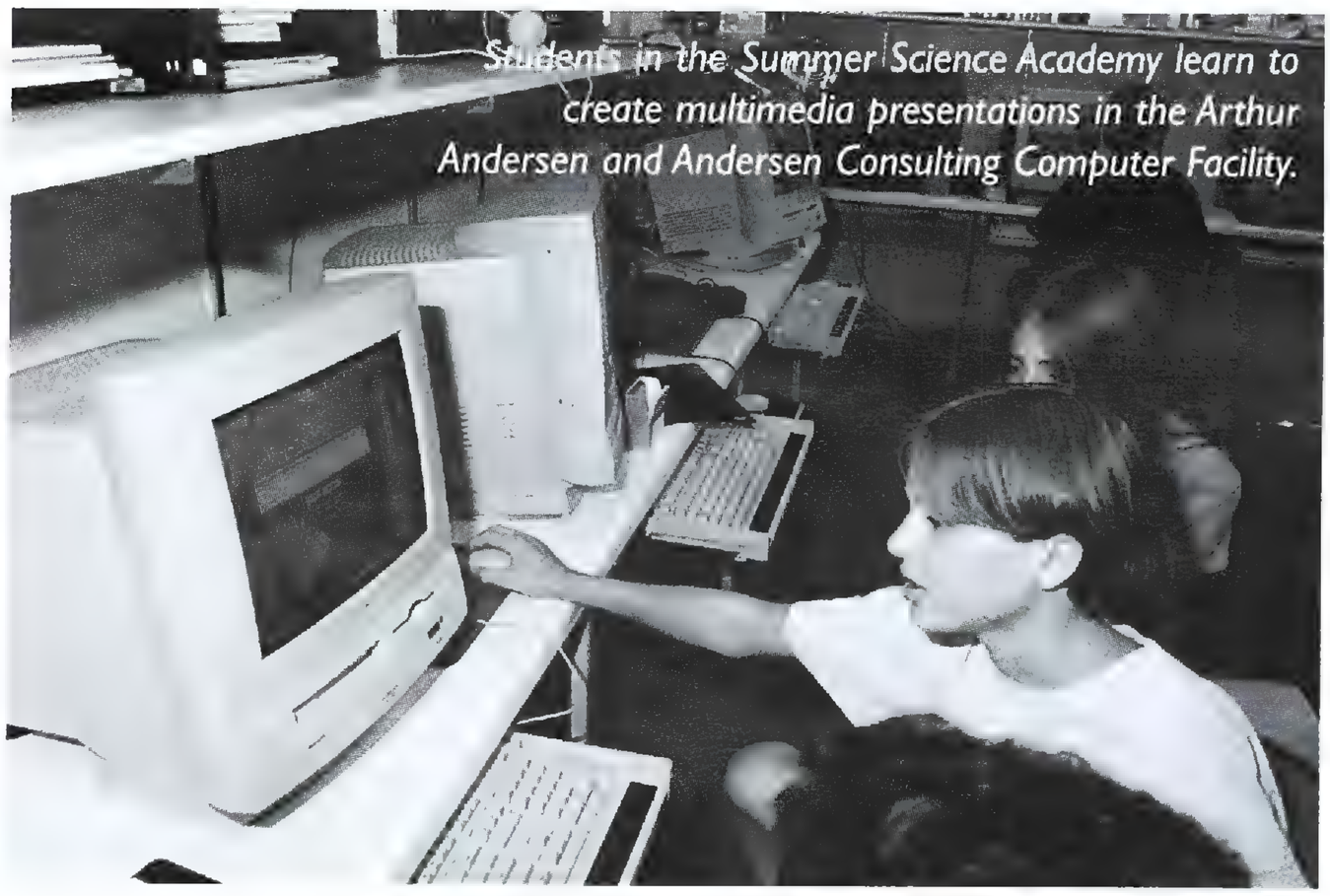
A GEMS workshop at the Garden introduces teachers to "Great Explorations in Math and Science."

In the restored wetland at the Arboretum, teachers catch crayfish and tadpoles and test water samples, just as their students will do.

The Garden provides training for 3,700 teachers a year.

Innovations in Curriculum Development

AT A RECENT training program, an elementary school teacher said, "I really like working with the Garden, because their support doesn't stop after the workshop. They provide a complete curriculum, with follow up, lesson plans, class activities, and kits of materials I can use in my classroom. That's a big help with my time and budget!"



Students in the Summer Science Academy learn to create multimedia presentations in the Arthur Andersen and Andersen Consulting Computer Facility.

That kind of follow-through is a crucial part of the innovative curriculum programs operating at the Garden. All plans conform to the National Science Standards and support Missouri's Show-Me Standards. They are designed to promote cooperation, critical thinking, problem solving, and creativity.

The Garden is pioneering exciting new programs to incorporate computer technology in the classroom.

The Garden is pioneering exciting new programs that help teachers incorporate computer technology into the classroom. At Litzsinger Road Ecology Center, more than 1,000 students from the St. Louis area are using Geographic Information System software (GIS) to gather and map data for an environmental monitoring program of the Deer Creek watershed in St. Louis County. They share their data with professional scientists via the Internet.

"The students are part of a nationwide investigation," said Dr. Bob Coulter, technology institute coordinator. "They are using real science to solve real problems."

The Garden trains the teachers in water testing and GIS technology at a summer workshop, then follows up with teaching materials and support. Coulter spends little time in his office. "I'm out in the schools more often than not," he said. "I work with the teachers and help implement the curriculum."

In the GLOBE program, Global Learning and Observations to Benefit the Environment, students take environmental measurements designed by scientists at NASA and the National

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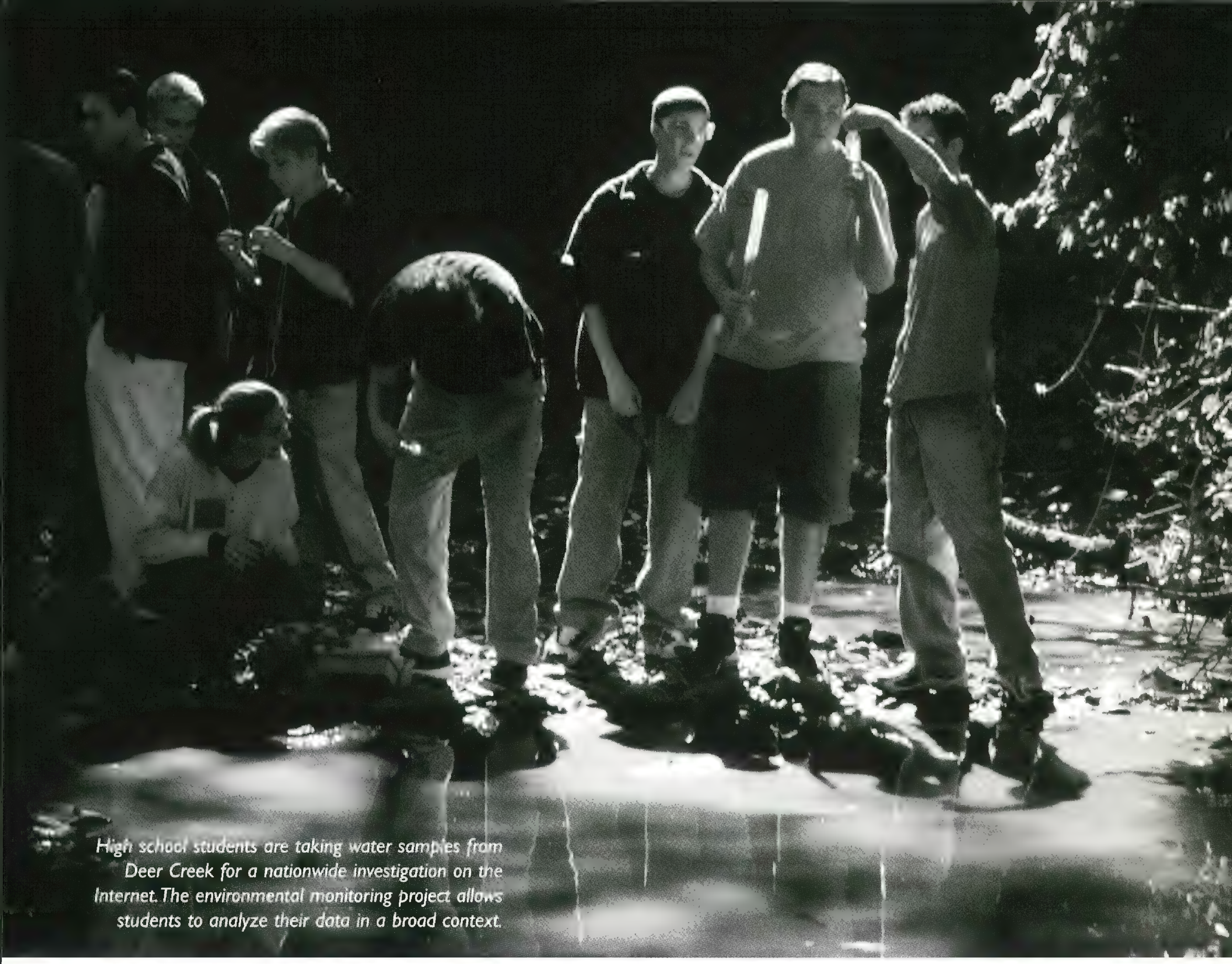


High school students are taking water samples from Deer Creek for a nationwide investigation on the Internet. The environmental monitoring project allows students to analyze their data in a broad context.

CURRICULUM DEVELOPMENT – continued from page 11

Using computers as a tool for learning, students are using real science to help solve real problems.

Science Foundation and share the data on the Internet with students and scientists around the world.

The Garden serves as the national teacher training site for Journey North, a global study that uses the Internet to track seasonal changes and the annual movements of a dozen migratory species, including monarch butterflies, eagles, and whales. Students organize and analyze their local data and share it via the Internet, where they view it in a broader context with participating classes across North America.

Teachers who aren't yet wired into the online revolution can learn how to use computers, multi-media, and the Internet at the Arthur Andersen and Andersen Consulting Computer Facility in the E. Desmond and Mary Ann Lee Educational Center at the Garden. "The lab improves teacher access to science information," said Celeste Prussia, manager of the Lee Center. "We help teachers make better use of their time on the computer."

The Garden's award-winning educational Web site, MBGnet, helps teachers integrate computers into classroom lessons via "Web

Workshops." These 12 online courses were created in cooperation with The Evergreen Project, the Cooperating School District, and Webster University. For school districts not connected to the Internet, MBGnet is available on CD-ROM.

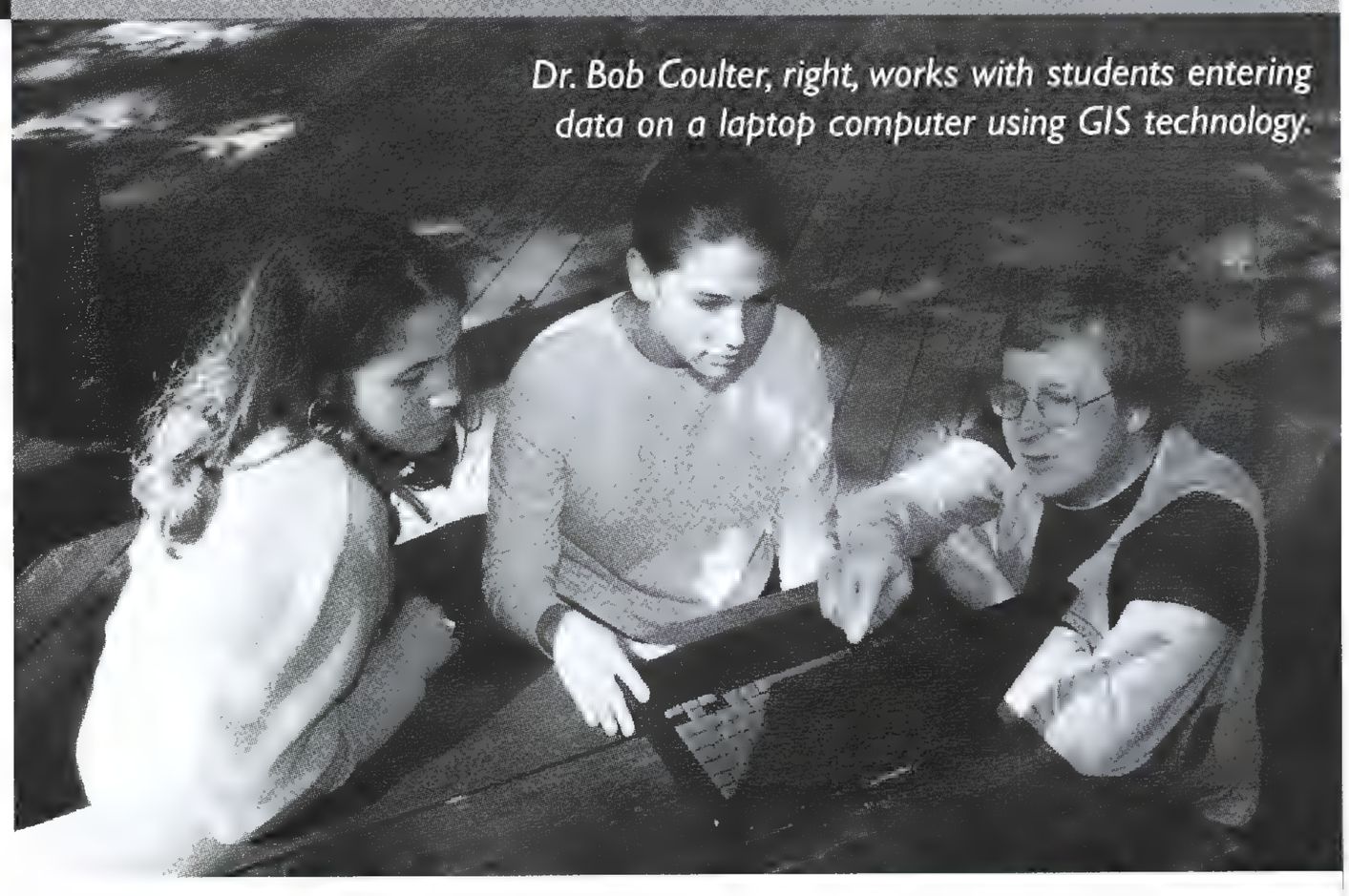
MBG Videos, an award-winning series developed in partnership with the Evergreen Project, is now used in more than 20,000 schools nationwide. "What It's Like Where You Live?" features students and teachers as they explore rain forests, grasslands, deserts, and other biomes. Classes can share their information with other school groups using MBGnet, and teachers can find activities that go along with the lessons.

In the Stupp Teacher Resource Center at the Garden, busy teachers find one stop "shopping," offering Suitcase Science kits complete with classroom materials available on loan. Books, periodicals, curriculum guides, activity guides, videos, CD-ROMs, GEMS kits and more are available for loan or purchase.

— Reporting by Jean Abernathy

CLOSEUP

A Global Classroom



Dr. Bob Coulter, right, works with students entering data on a laptop computer using GIS technology.

At Litzsinger Road Ecology Center, students from Westminster Christian Academy collect samples of the water from Deer Creek, analyze the water with a testing kit, and enter the results in a laptop computer. They test the samples for levels of chemicals and the various microscopic critters that call the stream home.

Using Geographic Information System software (GIS), a sophisticated mapping program, the students can draw conclusions about what is happening to the stream before, during, and after it leaves their area. Their data will become part of a national environmental monitoring program on the Internet.

The GIS program is just one of a series of exciting new programs offered by the Garden that use computer technology to teach science concepts.

Janelle Jones, a sixth grade teacher at Nipher Middle School, said, "My students are not just reading about this in a book. As a Stream Team for the Missouri Department of Conservation, they are monitoring Sugar Creek right in their own community. They like being part of a real science project, and they know what they are doing is important. They are seeing, first hand, the importance of conservation and taking care of water."

Teachers who take part in GIS studies are trained in water testing and GIS technology at a two-week summer institute. The Garden continues to work directly with teachers as they implement the program.

Jones said, "Combining computers with environmental monitoring sharpens my students' investigative and analytical skills. They're discovering how to use the technology as a tool for learning."

Serving the Community

Partnerships with Schools

THIS IS MY FAVORITE CLASS," said Daniel, a student at Mullanphy Botanical Garden Investigative Learning Center. "I like it because you learn so much. Science is never boring, because we're always doing experiments."

An attentive class of fourth graders at Mullanphy School was listening to Jennifer Caron, a teacher from the Garden, as she began a lesson about sand. Rather than look at pictures of sand in a book, the students used a magnifying scope and lenses to look at different types of sand collected from Africa, Long Island, Nova Scotia, and Southern California.

The Mullanphy Botanical Garden Investigative Learning Center is just a short walk away from the Garden. The partnership between the Garden and Mullanphy, a St. Louis public science and math magnet school, began years before the school opened in 1993. The Garden was an active partner in designing the school's curriculum and facilities. Caron teaches there full time, working with grade levels from kindergarten through fifth grade.

"The Garden instructor is here to support our curriculum," said Diane Dymond, instructional coordinator at Mullanphy. "We teach the basics, and the Garden teacher enriches the program with interactive science instruction that utilizes the Garden's expertise and facilities." A

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Right: The garden and greenhouse at Mullanphy School are used as living laboratories for studying plants and the environment.

Center: Barbara Addelson, manager of science outreach programs, (center), and Jonathan Zucker, outreach instructor, with students at Garfield School during "Mystery Night."

A fifth grade science class at Mullanphy Botanical Garden ILC, a St. Louis public magnet school. The Garden is an active partner in designing the curriculum and facilities for the school.

"We always have our hands and brains going at the same time."

The Garden works in partnership with four St. Louis public magnet schools. Here, a Garden instructor leads a science class at Compton-Drew Investigative Learning Center.

PARTNERSHIPS WITH SCHOOLS – continued from page 14

greenhouse and an outdoor garden at Mullanphy are used as living laboratories for teaching about plants and the environment.

As a clear measure of the school's success, Mullanphy students continue to greatly exceed average test scores in science for the school district and the state of Missouri.

Garden educators work in partnership with four St. Louis public magnet schools: Mullanphy Investigative Learning Center, Gateway Elementary Math Science and Technology School, Gateway Middle School, and Compton-Drew ILC. "The partnerships are successful because the Garden and the schools collaborate to build on their individual strengths," said Jennifer Davies, the Garden educator assigned to Gateway Elementary.

Science classes at Gateway Elementary and Middle Schools take advantage of a two-acre nature area complete with a pond and prairie. "I teach many of my classes outside," Davies said. "We study prairie, wetlands and river habitats. We go eagle watching. We visit the Arboretum and the Meramec River. Science learning does not have to take place in the classroom."

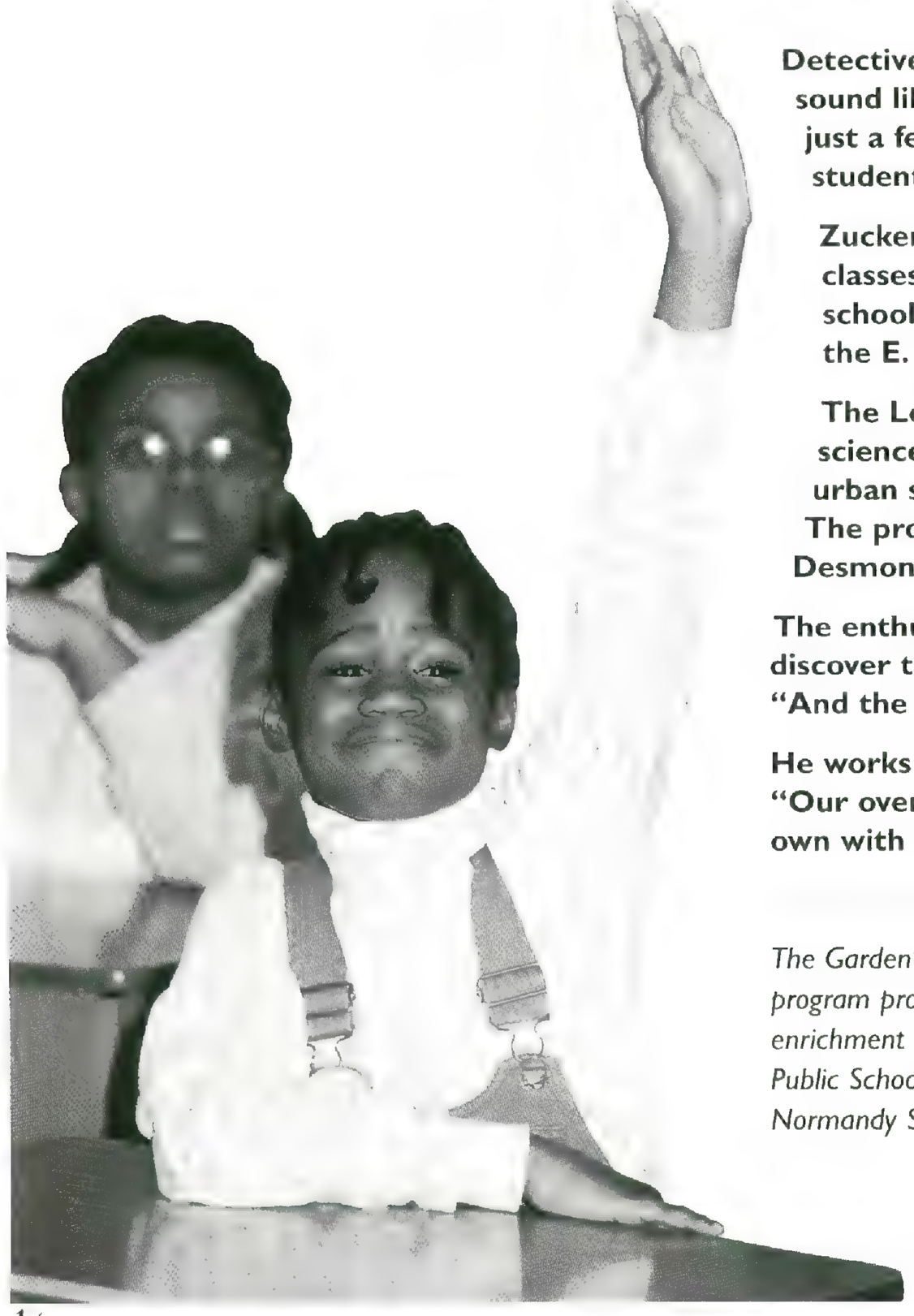
The Garden's education program focuses on elementary and middle schools. Jennifer Davies said, "It is so easy to light a fire and an interest in science with elementary students. Working hands-on with crawly, smelly, messy stuff is exciting for the students, and we're comfortable with the "icky" things — worms, bugs, ponds and dirt."

"Scientific training at an early age is crucial," said Dr. Larry DeBuhr, the Garden's director of education. "When we reach young students we can instill lifelong interest and enthusiasm that will benefit out society for years to come."

— Reporting by Jean Abernathy

CLOSEUP

E. Desmond Lee and Family Education Program



Detective mysteries...balloons...blindfolds and noisemakers! It may sound like the recipe for a great kids' birthday party, but it's really just a few of the props Jonathan Zucker uses to help elementary students and teachers learn about science.

Zucker is the Garden's science outreach instructor. He works with classes at several St. Louis Public Schools and with nine elementary schools in the Normandy School District. The project is funded by the E. Desmond Lee and Family Education Program.

The Lee program was established in 1994 to train teachers in science, increase the educational opportunities at underserved urban schools, and challenge students to pursue careers in science. The program was made possible by a generous grant from E. Desmond Lee, a Garden trustee.

The enthusiasm of the students and their teachers is exciting. "They discover that science doesn't have to be intimidating," Zucker said. "And the inquiry skills help students with all their studies."

He works side by side with teachers in the classroom and in workshops. "Our overall goal is to give teachers the skills to teach science on their own with confidence," he explained.

The Garden's outreach program provides science enrichment classes in St. Louis Public Schools and the Normandy School District.

Getting Students Involved

Students have summer jobs and investigate careers in environmental science through the Eco-Restoration Corps at Litzsinger Road Ecology Center.

THE fourth and fifth grade students at Euclid Montessori School could have been preparing for a musical production rather than mastering a science lesson.

The words — evaporation, condensation, precipitation, run-off, infiltration, and transpiration — revealed that a lesson in the water cycle was underway. "Combining movement with the six steps of the water cycle helps the children learn more easily," explained Kathleen Edwards, a junior from Metro High School. She and her classmate Essalyn Long were leading the class.

The activity was part of the Garden's award-winning ECO-ACT program. In ECO-ACT, high school students spend three weeks each summer learning about ecological issues and environmental science at the Garden and Shaw Arboretum. Working in teams, they develop their teaching and leadership skills. During the school year, each team teaches a weekly class at an elementary school.

Over 1,200 high school students have participated in ECO-ACT since it began in 1981, developing self confidence and improving their knowledge of science and ecology. The program has served more than 14,000 elementary students, providing positive role models and teaching science in a new and stimulating way. ECO-ACT has been recognized by the National Science Teachers Association as a national model in its Search for Excellence in Science Education.

"We have workshops to keep up on the material about every three weeks throughout the school year," said Edwards. "We also help our students plan and carry out a community service project to benefit the environment."

In another ECO-ACT session down the hall, fourth and fifth graders were exploring how plants and humans interact during photosynthesis and respiration. Adam Richie-Halford and Yasmira Jackson, both juniors from Metro, were the leaders in charge of the group. Adam said, "When a child really understands something, it fosters a sense of accomplishment, one of the best feelings in the world."

The teachers are enthusiastic. "The classes

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GETTING STUDENTS INVOLVED – continued from page 17

are wonderful and the material they learn is right on target for the SAT and MAPS tests," said Kathleen Hill, a teacher at the school. Teacher Tony Walling agreed, "The high school students are great role models."

Developing the big picture, where humans are just one species on Planet Earth.

The Garden offers several exciting programs to engage students in learning by combining science with community service. At Litzsinger Road Ecology Center, high school students can have a summer job learning about environmental science and working on ecological restoration projects.

"It is a service and learning program," explained Celeste Prussia, manager of the Center. "The students visit a prairie restoration project, the Wild Bird Sanctuary, recycling and waste management centers, and other sites. They meet with scientists and other professionals to explore career options in conservation biology and natural resource management."

Habitat Helpers is a hands-on ecological restoration project at Shaw Arboretum, tailored for children ages 10 to 12. During the course of a year, Habitat Helpers learn about ecological restoration by collecting seeds from native plants and planting them in a prairie site. They also discover plant and animal interrelationships, adaptations, and identification.

The students develop critical thinking, problem solving skills, and a sense of wonder at the natural world that comes from field study.

As Prussia explained, "They develop the concept of the big picture, where humans are just one species on planet Earth."

— Reporting by Alene Hill

CLOSEUP **Service and Learning**

It was all Robert Harvey could do not to yell out the answer.

Adam Richie-Halford and Yasmira Jackson, juniors from Metro High School, were leading the fifth grade class at Euclid Montessori School. They faced a forest of eagerly waving hands as they asked, "What type of clouds did you see in the sky during the snowstorm on Saturday?"

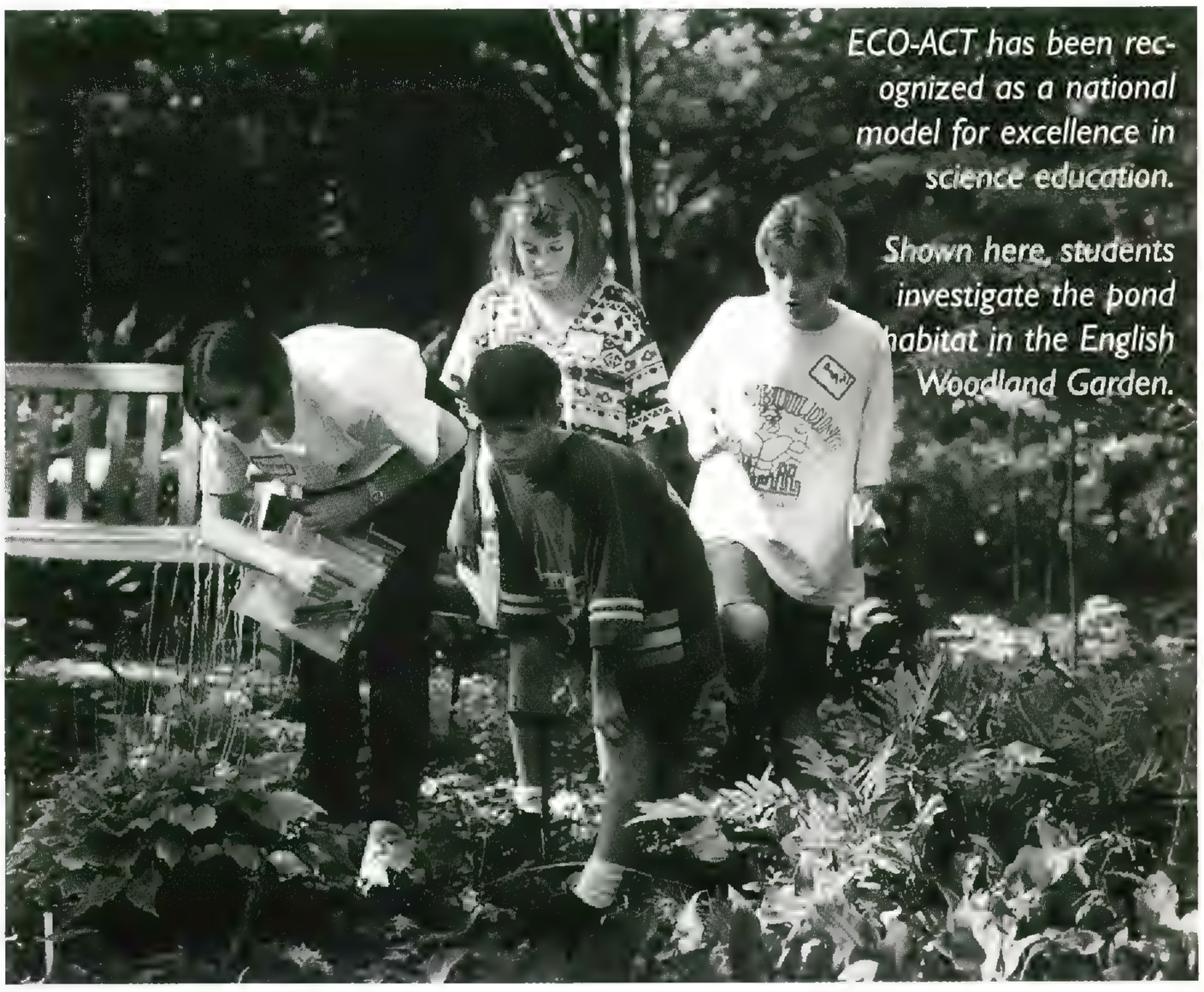
"They were cumulonimbus clouds," Robert replied without hesitation.

The class was participating in ECO-ACT, an award-winning program that trains high school sophomores and juniors to teach environmental science to younger students.

"We have a different lesson every week," Jackson explained. "We also have some projects that we monitor over time. For instance, we have been measuring the water that evaporates out of the cups around the room. It's a good way to help illustrate the water cycle."

Amenti Willis, a fourth grader, said that having fun with schoolmates helped her remember what she learned. "I even hear about things we learn on the news, and I can understand what they're talking about," she said. "I have fun with this class."

The classroom teacher said, "Our students can really relate to the high school kids, and they are wonderful leaders. They find creative ways to give every child a sense of accomplishment, of working with the group."



ECO-ACT has been recognized as a national model for excellence in science education.

Shown here, students investigate the pond habitat in the English Woodland Garden.

Science for All Ages

The adventure begins with summer programs for young scientists and continues for a lifetime.

UNTIL he enrolled in the Garden's Summer Science Academy, third grader Chris Watkins had no idea how many species of plants and animals depend on creeks for their survival.

"We studied the creeks and prairies, and we learned what trees, plants, and animals live in both places," Chris explained. "I caught all kinds of bugs and minnows in the creek. I liked being outside in the woods!"

That sense of wonder doesn't change, whether you are six or sixty. At the Garden, people will find just the right program to foster their curiosity about the natural world. The adventure begins in summer programs for budding young scientists and continues for a lifetime.

Each year, 11,000 adults learn about gardening and horticulture at the Garden or at community outreach locations. Over 3,000 senior citizens have their lives enriched with programs presented by the Garden. And more than 1,000 children expand their knowledge and their lives through the Garden's annual Summer Science Academy.

In one Summer Science Academy class, sixth grader Ariel Frank studied satellite images and computer mapping. A group of junior high school students learned about stream ecology during a float trip, and high school students investigated careers in conservation and biology while restoring woodland habitats at the Litzsinger Road Ecology Center.

Erika Olson, who recently graduated from Brown University, began attending summer courses at the Garden while she was in grade school. She said, "By the time I graduated from high school, I had learned about everything from tropical rain forests to spelunking in the Ozarks. I loved combining science with outdoor activities." In high school, she taught younger students in the ECO-ACT program, and today she is considering veterinary school. She emphasized how her Garden courses had influenced and broadened her life.

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Scott Woodbury, horticulturist at the Arboretum, leads a class in the Whitmire Wildflower Garden.

SCIENCE FOR ALL AGES – continued from page 19

The Pitzman Nature Study Program introduces children ages 4 to 6 to nature during the summer. "The children and their parents discover everything from the Scented Garden to the wonders of butterflies," said Beth Suedmeyer, summer science coordinator. "Many of our participants came to this program when they were young, and now they're bringing their children."

The sense of wonder doesn't change, whether you are six or sixty.

Summer Science Academy classes are offered at the Garden, the Litzsinger Road Ecology Center, and Shaw Arboretum.

Adult education is a big program at the Garden. And it is getting bigger. Based at the William T. Kemper Center for Home Gardening, the program is operated by the Garden's Horticulture Division. It provides horticultural training and outreach programs for individuals, organizations, and communities in the St. Louis metropolitan area.

Beginning in 1999, gardening classes were offered at community centers in West County, South County, St. Charles and Florissant, in addition to classes at the Garden. Adults can earn professional-level certification in horticulture through a gardener training program offered cooperatively by the Garden and St. Louis Community College at Meramec.

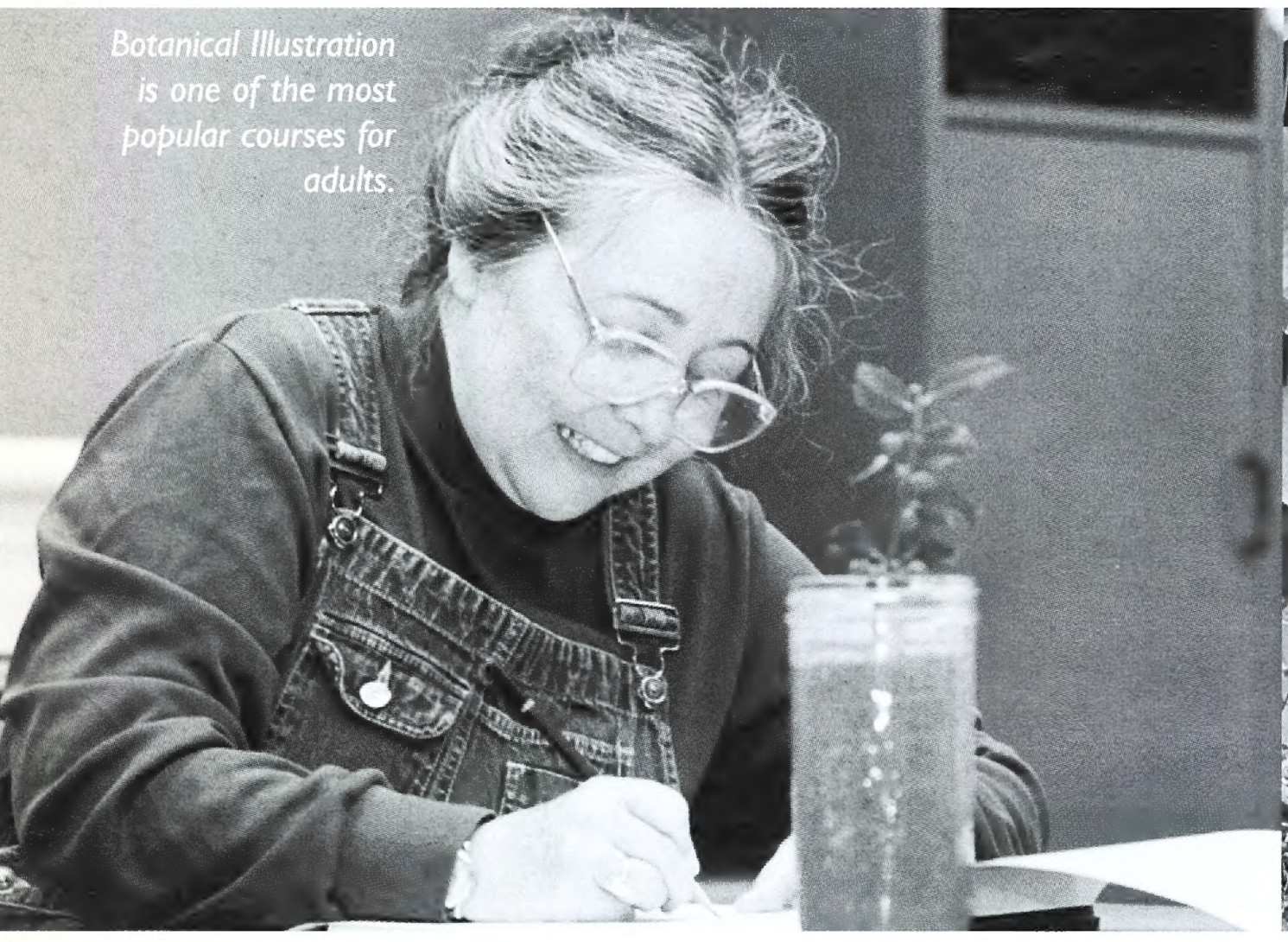
"Our courses emphasize horticultural techniques from basic gardening to advanced landscaping. We have something for everyone," said Glenn Kopp, coordinator of adult education. "We offer everything from wildflower gardening, herb gardens, and mushrooming, to bird watching, crafts, and photography. At the Arboretum, we provide exciting outdoor programs that emphasize nature study and activities for families."

For seniors, the Garden offers a wide variety of activities through the Samuel D. Soule Center, including cooking, botany, horticulture, crafts, and tours. On special "Senior Days," older adults who visit the Garden receive reduced admission and free tram rides plus a program featuring guest speakers, medical screenings, workshops, and displays.

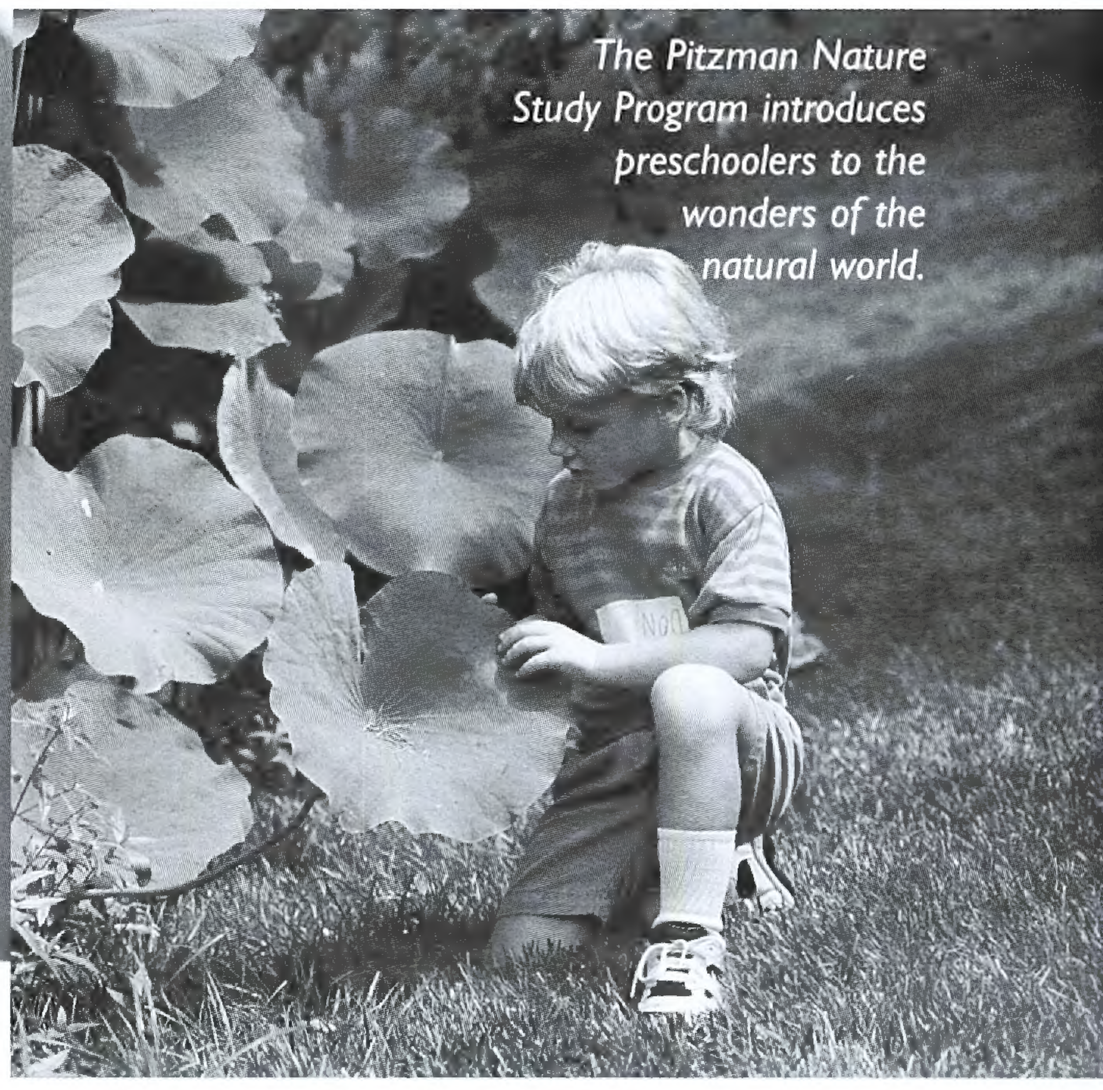
"Gardens Come to You" takes activities to community sites and senior citizen centers for

people who cannot visit the Garden. "We have slide presentations on the Japanese garden, rain forests, or color in nature," said Peggy Kelly, coordinator of the senior program. "We also offer activities such as planting a container garden, making a corsage, or relaxation techniques. The important thing is, we tailor the program to the interests of the group."

— Reporting by Alene Hill



Botanical Illustration is one of the most popular courses for adults.



The Pitzman Nature Study Program introduces preschoolers to the wonders of the natural world.

CLOSEUP From Basic Gardening to Advanced Landscaping

Mary Ann Fink was a young mother looking for a creative outlet and "a way to make my home look nicer" when she began visiting the Garden several years ago. "I would go to the Garden and look at the landscaping, then go home and wonder how I could apply what I had observed to my yard," she explained. She enrolled in basic gardening and landscaping classes at the Kemper Center for Home Gardening and discovered a life's passion.

"As the Kemper Center grew, the programs they offered expanded," she explained. "My interests grew, too. I took every class I could. The more I learned, the more I wanted to know."

Fink began working in a nursery, and today she is a St. Louis Master Gardener and a certified arborist. St. Louis Master Gardeners are volunteers, trained by the Garden, University Outreach and Extension, and Lincoln University Cooperative Extension. They provide many of the services offered at the Kemper Center for Home Gardening, which is operated jointly by the Garden, University Outreach and Extension, and Lincoln University Cooperative Extension.

Using the horticultural database in the William T. Kemper Center for Home Gardening.

"So many people are gardening and looking for information," she said. "There is so much information and inspiration at the Kemper Center — 23 outdoor demonstration gardens, a reference library, a database of species that grow well in our area, and experts on hand who can answer questions."

Fink is currently completing her degree in horticulture. She also teaches adult classes for the Garden at outreach locations in the metropolitan area. "People don't realize how much information is available and how easy it is to find," she said. "The Outreach Program puts the Garden and its services right around the corner."

Interpretation for Visitors

A Window on Nature

ON A RECENT SATURDAY, throngs of visitors were exploring the Climatron® conservatory. In the Brookings Interpretive Center, children breathlessly examined a colony of stinging tropical ants behind glass and climbed into the rain forest canopy using a computer touch screen. The lighted displays glowed like jewels.

"We learned about rain forests in school," said Samuel King, a second grader. "They're disappearing. I want to see what it's about."

Together parents and children manipulated an interactive exhibit on energy cycles and

Making it fun to learn about ecology and the environment.

watched the seasons change on video screens. A group of small children stared, fascinated, at a terrarium filled with brilliantly colored poison dart frogs.

"The best way is to go through several times," said Sylvia King, who was visiting from Chicago. "Every time I come, I see something new."

Over 750,000 people each year visit the Garden. The Garden seeks to enhance the experience for each visitor, making it enjoyable to learn something new about ecology and the environment.

On weekends, children and adults can stop by the Brookings Center for an Ecological Adventure, an entertaining live demonstration on environmental science topics such as photosynthesis, food chains, ecosystems, and plant adaptations. The adventures are also available to teachers and their classes by appointment during the week.

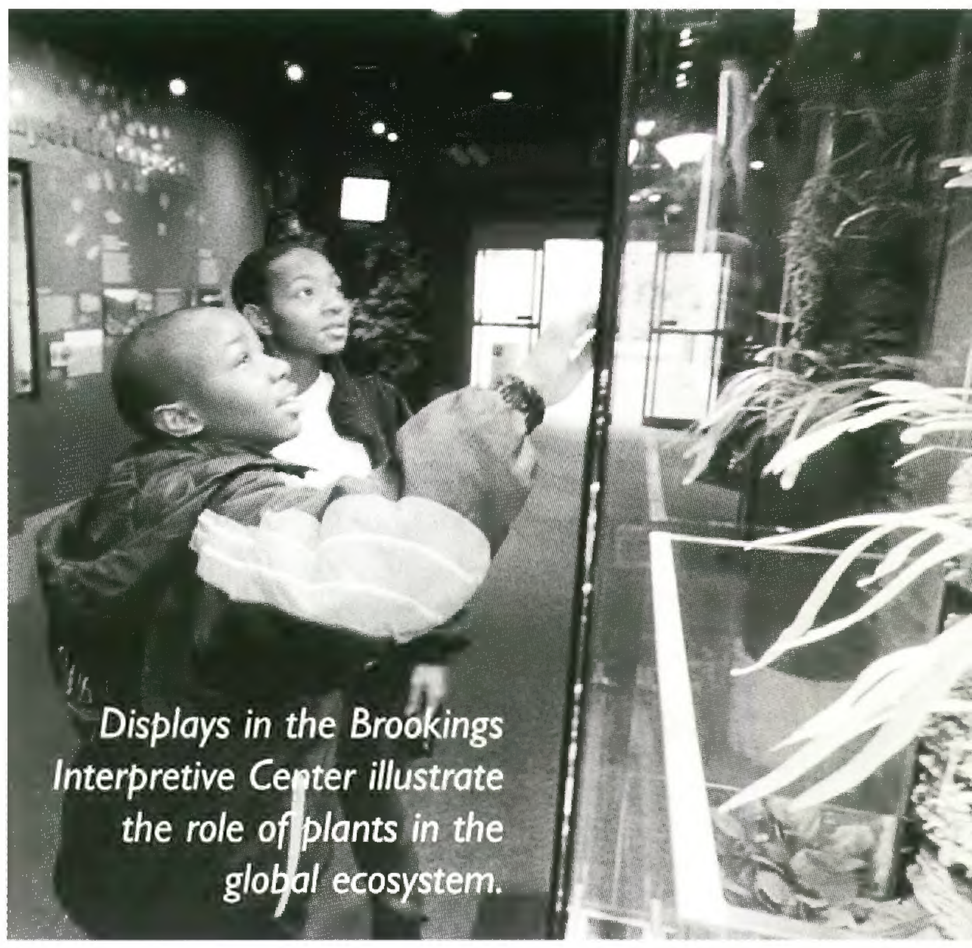
Susan Mintz, who presents the demonstrations, said, "Using costumes and creative props makes the information interesting and fun. We have to be ready to answer questions for everyone from preschoolers to groups of scientists. I encourage the audience to interrupt and ask questions. It's a great way to introduce people to science."

Outdoors, weekend visitors find Volunteer Interpreters stationed around the Garden, equipped with colorful carts of objects to touch, see, and smell. The volunteers are highly trained to talk about plants and their role in the natural world. They greet visitors, answer questions, and share some interesting facts about science. The Interpreters also have fun things for families to do, such as activity sheets with simple things to see and find on a trip through the Garden.

Mike and Cathy Nelson are Volunteer Interpreters. "Every few months, we have a new program to present," Mike explained. "Subjects like pollination, how seeds travel, and how Native Americans used plants for food and medicine."

Families are not the only visitors to stop by the carts looking for information. "We have lots of adults too," said Cathy, "and often we learn a lot from talking with our visitors."

Peggy Kelly, coordinator of the Volunteer



Displays in the Brookings Interpretive Center illustrate the role of plants in the global ecosystem.

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CLOSEUP Eco-Adventures

"Did you know there are more than forty types of bananas?"

On a recent Saturday, an Ecological Adventure was underway in the Brookings Interpretive Center. It was a lively demonstration on how plants from tropical rain forests provide some very familiar products.

An audience of children and parents watched intently as Susan Mintz, the staff presenter, held up different examples of tropical fruits.

"I bet you're all familiar with some of the foods that come from tropical plants," said Mintz. Many in the audience knew about chocolate, derived from the cacao plant, coffee, and Coca-Cola. Other examples were not so obvious, such as vanilla, tapioca, and mangoes. The list of products derived from plants grew to include clothing made from cotton and furniture made from wood.

Susan Mintz of the Education staff presents Eco-Adventure demonstrations in the Brookings Interpretive Center.

But what about a rubber ball? It was time for a simple experiment. Mintz poured liquid latex, the product from a rubber plant, into a bowl, added some water, and then vinegar. "The method they use to get latex from the rubber plant is similar to the way we harvest maple syrup, it's just a different sap," she explained.

What formed, after a little kneading, was a round, whitish rubber ball, which to children in the audience quickly put to the bouncing test. "This is amazing," said Kelly Walsh, a fourth grader. "We learned something, and so did Mom and Dad!"

Interpreters, said plans are underway to expand the number of carts and continue to develop programs that serve all ages. "Adults and children really enjoy being able to ask questions and talk to the volunteers," she said.

Walking tours of the Garden are available every day, led by the Garden Guides, highly trained docents who have been educating visitors for over 30 years. Narrated tram tours introduce many people to the history, plants and displays at the Garden. Plans are underway to expand interpretive activities and to continue to develop programs that serve visitors of all ages.

As Mike Nelson said, "For most people, it just makes the trip to the Garden that much more enjoyable to come away with a little more understanding about nature."

— Reporting by Alene Hill

Visitors of all ages enjoy learning about plants from the Volunteer Interpreters.

"Every time I come, I see something new."

What's Inside

2.
Science & Math Literacy

The Garden is dedicated to developing the next generation of scientists.

5.
Learning from the Natural World

Interactive programs at the Garden, the Arboretum, and at the Litzsinger Road Ecology Center emphasize hands-on lessons that enhance learning.

8.
For Future Generations

Teacher training is the key to improving science education.

11.
Curriculum Development

Computer technology and classroom materials give teachers the support they need.

14.
Partnerships with Schools

Working with schools to strengthen science education in the St. Louis area.

17.
Getting Students Involved

Award-winning programs teach environmental science and leadership skills.

19.
Science For All Ages

From pre-schoolers to seniors, the Garden offers courses for everyone.

22.
Window on the Natural World

Visitors discover ecology and environmental science in the Brookings Interpretive Center and from Volunteer Interpreters outdoors.

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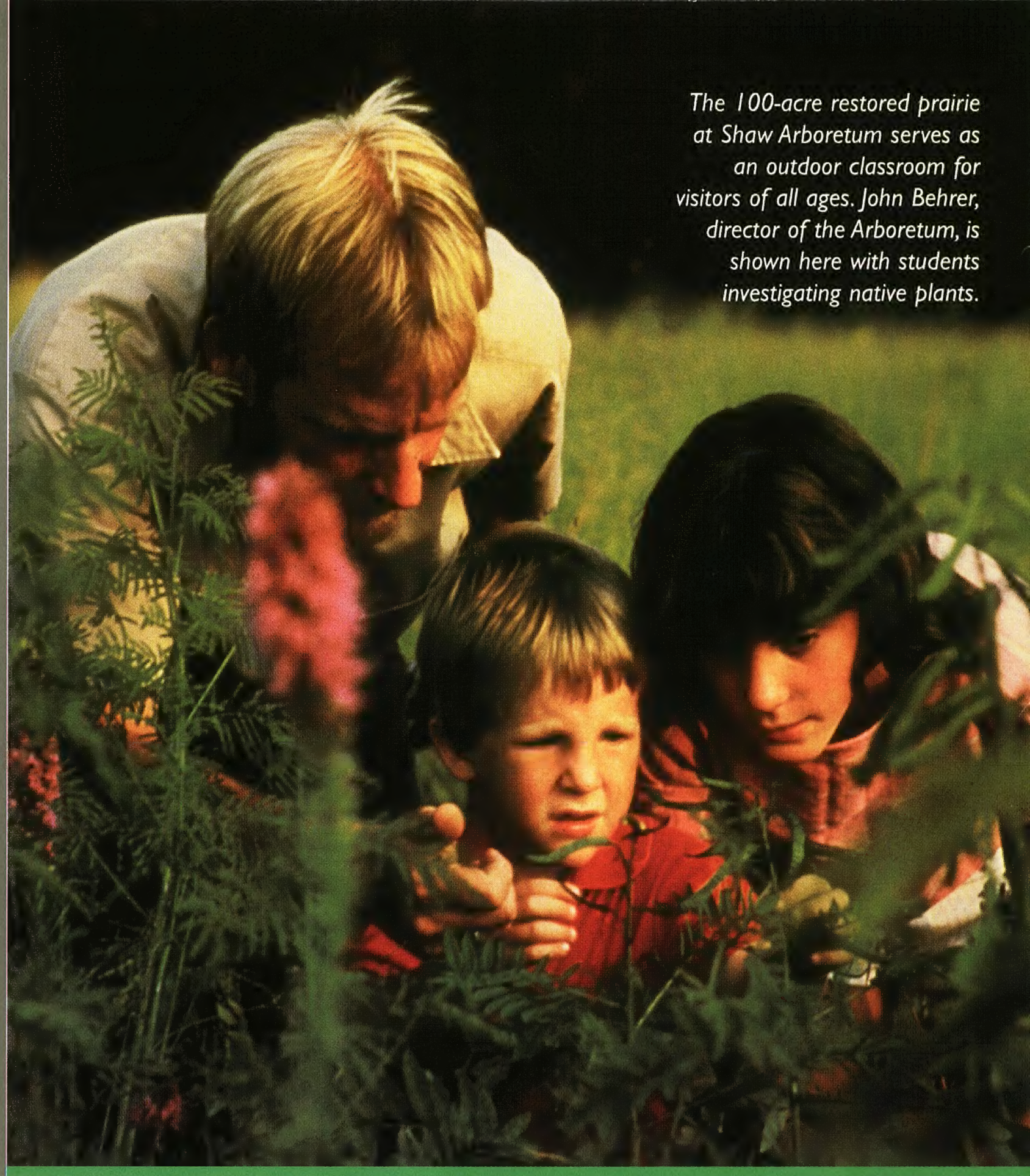

The 100-acre restored prairie at Shaw Arboretum serves as an outdoor classroom for visitors of all ages. John Behrer, director of the Arboretum, is shown here with students investigating native plants.

Exciting **innovations** have made the Garden a leader in science education in St. Louis and around the world.

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